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MySQL□□□□□□□□□□□□ *2016-11-29*

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Chimu giku *2013-07-19*

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□□□□□□□□□□□□□□□ *2018-03-02*

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master one of the most essential tools a professional pen tester needs to know key features strategic deployment of nmap across diverse security assessments optimizing its capabilities for each scenario proficient mapping of corporate attack surfaces precise fingerprinting of system information and accurate identification of vulnerabilities seamless integration of advanced obfuscation tactics and firewall evasion techniques into your scanning strategies ensuring thorough and effective assessments description

this essential handbook offers a systematic journey through the intricacies of nmap providing both novice and seasoned professionals with the tools and techniques needed to conduct thorough security assessments with confidence the purpose of this book is to educate and empower cyber security professionals to increase their skill set and by extension contribute positively to the cyber security posture of organizations through the use of nmap this book starts at the ground floor by establishing a baseline understanding of what penetration testing is how it is similar but distinct from other types of security engagements and just how powerful of a tool nmap can be to include in a pen tester s arsenal by systematically building the reader s proficiency through thought provoking case studies guided hands on challenges and robust discussions about how and why to employ different techniques the reader will finish each chapter with new tangible skills with practical best practices and considerations you ll learn how to optimize your nmap scans while minimizing risks and false positives at the end you will be able to test your knowledge with nmap practice questions and utilize the quick reference guide for easy access to essential commands and functions what will you learn establish a robust penetration testing lab environment to simulate real world scenarios effectively utilize nmap proficiently to thoroughly map an organization s attack surface identifying potential entry points and weaknesses conduct comprehensive vulnerability scanning and exploiting discovered vulnerabilities using nmap s powerful features navigate complex and extensive network environments with ease and precision optimizing scanning efficiency implement advanced obfuscation techniques to bypass security measures and accurately assess system vulnerabilities master the capabilities of the nmap scripting engine enhancing your toolkit with custom scripts for tailored security assessments and automated tasks who is this book for this book is tailored for junior and aspiring cybersecurity professionals offering a comprehensive journey into advanced penetration testing methodologies to elevate their skills to proficiently navigate complex cybersecurity landscapes while a basic grasp of networking concepts and intrusion detection systems can be advantageous not a prerequisite to derive significant value from this resource whether you re seeking to fortify your understanding of penetration testing or aiming to expand your arsenal with sophisticated nmap techniques this book provides a valuable roadmap for growth in the field of cybersecurity table of contents 1 introduction to nmap and security assessments 2 setting up a lab environment for nmap 3 introduction to attack surface mapping 4 identifying vulnerabilities through reconnaissance and enumeration 5 mapping a large environment 6 leveraging zenmap and legion 7 advanced obfuscation and firewall evasion techniques 8 leveraging the nmap scripting engine 9 best practices and considerations appendix a additional questions appendix b nmap quick reference guide index

Ultimate Penetration Testing with Nmap *2024-03-30*

tagline unlock the power of kubernetes master cluster excellence key features master kubernetes from the

ground up covering foundational to expert level skills enhance learning with practical examples clear diagrams and real world applications tailored content to help you confidently pass the cka certification exam description embark on a journey from beginner to pro with this cka certification guide seamlessly blending theory with hands on practice this indispensable kubernetes companion provides clear explanations and real world scenarios to guide you to success in kubernetes administration the book starts by giving a solid understanding of kubernetes platform and how to confidently set up your clusters with step by step instructions you will dive into workload objects to master crucial concepts then explore service and ingress for a deep understanding of networking next it moves to deploy and scale applications ensuring you re ready for any workload this book offers the tools needed to design deploy and maintain efficient scalable and resilient applications in kubernetes environments it covers essential topics such as pods deployments and statefulsets along with providing insights into kubernetes architecture and operations the advanced section of the book focuses on enhancing your skills with chapters on security and troubleshooting ensuring you can maintain your clusters effectively and managing microservices with precision the final section of the book covers focused content and practice exercises to prepare you to ace the cka certification exam what will you learn gain the skills to set up configure and maintain kubernetes clusters ensuring secure and efficient operations learn how to create deploy and manage applications on kubernetes including handling updates and scaling acquire in depth knowledge of kubernetes networking and storage enabling you to design and implement robust solutions develop expertise in automating application deployments and managing their scaling and availability for optimal performance build the ability to identify diagnose and resolve common kubernetes problems ensuring smooth cluster operations who is this book for this book is tailored for it professionals including devops engineers system administrators cloud architects and kubernetes enthusiasts who possess a foundational understanding of containerization concepts and aspire to become proficient in kubernetes for managing cloud native applications if you are a kubernetes enthusiast looking forward to obtaining your certified kubernetes administrator cka certification this book will be your indispensable companion table of contents 1 introduction to kubernetes 2 installing kubernetes 3 workload objects pod deploy statefulset 4 service and ingress exposing apps outside the cluster 5 deploy and scale stateless apps 6 deployment strategies rollingupdate recreate 7 data persistence local and cloud 8 deploy and scale statefulset 9 configure apps for production deployment 10 cluster database backup and restore 11 cluster upgrade kubeadm 12 coredns 13 networking pod service and ingress 14 kubernetes cni 15 kubernetes security 16 troubleshooting 17 kubernetes production essentials 18 microservices observability 19 scalable jenkins on kubernetes 20 gitops using argocd and github 21 cka exam mastery index

Ultimate Certified Kubernetes Administrator (CKA) Certification Guide *2024-07-09*

create your responsive website with zero css coding key features a step by step guide to build a responsive modern website using tailwind css explore the updated features components and configuration options of tailwind css leverage tailwind css to build websites that adapt flawlessly to different screen sizes and devices description this book is an in depth guide that merges machine learning techniques with opencv the most popular computer vision library using python the book introduces fundamental concepts in machine learning and computer vision progressing to practical implementation with opencv concepts related to image preprocessing contour and thresholding techniques motion detection and tracking are explained in a step by step manner using code and output snippets hands on projects with real world datasets will offer you an invaluable experience in solving opencv challenges with machine learning it s an ultimate guide to explore areas like deep learning transfer learning and model optimization empowering readers to tackle complex tasks every chapter offers practical tips and tricks to build effective ml models by the end you would have mastered and applied ml concepts confidently to real world computer vision problems and will be able to develop robust and accurate machine learning models for diverse applications whether you are new to machine learning or seeking to enhance your computer vision skills this book is an invaluable resource for mastering the integration of machine learning and computer vision using opencv and python what will you learn acquire a solid understanding of website structures and layouts for web development explore the concepts and principles of tailwind css to harness its full potential leverage tailwind css s utility first approach for you web design develop a fully responsive website from scratch using tailwind css create stunning and functional web interfaces using tailwind css who is this book for this book is a perfect companion for web developers students css framework enthusiasts freelancers entrepreneurs self learners and experienced programmers who wish to learn about tailwind css if you are a front end developer web designer and ui ux professional who is aiming to enhance their skills in building modern and responsive websites this book is for you table of contents 1 getting started with html css and tailwind css 2 design principles for tailwind css 3 utility first classes and customization options 4 element specific styling with utility first classes 5 developing a website with tailwind css 6 advanced website development with tailwind css 7 best practices for tailwind css index

Ultimate Tailwind CSS Handbook *2023-08-16*

build slim ssr and ssg nuxt applications with composition api remote node js applications and php applications for projects that scale and require better maintenance key features develop full stack nuxt

applications with composition apis pinia socket io and localstorage separate nuxt apps for frontend and data management apis for streamlined maintenance build data apis with node js mongodb mariadb rethinkdb redis graphql and wordpress description unlock the true potential of nuxt js with this comprehensive guide the book explores the intricacies of nuxt js with a primary focus on addressing scalability challenges inherent in web applications readers will acquire the expertise to efficiently separate apis and data management from nuxt projects thereby significantly enhancing maintainability this journey is complemented by harnessing the potent nitro server engine enabling the seamless construction of full stack web applications using nuxt alone ensuring a harmonious blend of efficiency and scalability the book will help navigate the complexities of large scale nuxt projects uncovering the integration of remote node js and php applications to streamline api and data management processes practical insights abound offering a deep understanding of effective data handling and api management using prominent technologies such as mongodb mariadb rethinkdb and graphql tailored specifically for nuxt applications by the end of the book you will create static site generation ssg nuxt applications paired with wordpress to optimize production performance what will you learn master ssr and ssg vue js applications using nuxt and the composition api build dynamic pages manage http errors in nuxt node js php applications and enhance functionality with composables plugins utils and middleware create responsive layouts using windi css and less and optimize seo and open graph by managing static and dynamic assets with composables create a client server shopping cart system with pinia redis and cookies implement real time features using socket io and rethinkdb build a headless cms using wordpress for nuxt applications who is this book for this book is tailored for learners looking for full stack web development with nuxt js using the advanced composition api familiarity and prior knowledge of vue js is beneficial it s not mandatory as the book provides comprehensive guidance furthermore readers are expected to have proficiency in utilizing wordpress cms and familiarity with wordpress development table of contents 1 introducing advanced nuxt development 2 creating pages layouts composables plugins utilities and middleware 3 managing assets and adding ui frameworks 4 fetching data and handling errors 5 managing states and stores 6 managing data with nitro server engine in nuxt 7 managing data with node js apps for nuxt 8 managing database with php apps for nuxt 9 building graphql layers with mongodb wordpress and graphql tools for nuxt 10 creating ssg sites with nuxt and wordpress and going further index

Ultimate Nuxt.js for Full-Stack Web Applications *2024-01-29*

tagline master the art of data munging and predictive modeling for machine learning with scikit learn key features comprehensive coverage of complete predictive modeling lifecycle from data munging to deployment gain insights into the theoretical foundations underlying powerful machine learning algorithms master python s versatile scikit learn library for robust data analysis description ultimate machine learning

with scikit learn is a definitive resource that offers an in depth exploration of data preparation modeling techniques and the theoretical foundations behind powerful machine learning algorithms using python and scikit learn beginning with foundational techniques you ll dive into essential skills for effective data preprocessing setting the stage for robust analysis next logistic regression and decision trees equip you with the tools to delve deeper into predictive modeling ensuring a solid understanding of fundamental methodologies you will master time series data analysis followed by effective strategies for handling unstructured data using techniques like naive bayes transitioning into real time data streams you ll discover dynamic approaches with k nearest neighbors for high dimensional data analysis with support vector machines svms alongside you will learn to safeguard your analyses against anomalies with isolation forests and harness the predictive power of ensemble methods in the domain of stock market data analysis by the end of the book you will master the art of data engineering and ml pipelines ensuring you re equipped to tackle even the most complex analytics tasks with confidence what will you learn master fundamental data preprocessing techniques tailored for both structured and unstructured data develop predictive models utilizing a spectrum of methods including regression classification and clustering tackle intricate data challenges by employing support vector machines svms decision trees and ensemble learning approaches implement advanced anomaly detection methodologies and explore emerging techniques like neural networks build efficient data pipelines optimized for handling big data and streaming analytics solidify core machine learning principles through practical examples and illustrations who is this book for this book is tailored for experienced and aspiring data scientists machine learning engineers and ai practitioners aiming to enhance their skills and create impactful solutions using python and scikit learn prior experience with python and machine learning fundamentals is recommended table of contents 1 data preprocessing with linear regression 2 structured data and logistic regression 3 time series data and decision trees 4 unstructured data handling and naive bayes 5 real time data streams and k nearest neighbors 6 sparse distributed data and support vector machines 7 anomaly detection and isolation forests 8 stock market data and ensemble methods 9 data engineering and ml pipelines for advanced analytics index

Ultimate Machine Learning with Scikit-Learn 2024-05-06

tagline creating next gen apps in finance key features master the python libraries and packages essential for financial applications enabling robust development utilize python for developing applications that process financial information visualize data in diverse formats and create insightful representations derive analytical insights from mathematical models integrated into python applications for data driven decision making in finance and fintech description dive into the dynamic world where finance meets fintech with python s versatile capabilities in this ultimate python for fintech solutions whether you re aiming

to build secure trading platforms conduct deep statistical analysis or pioneer next generation financial technologies this book quips you with the knowledge tools and practical insights to succeed this book starts with python s foundational programming techniques essential for understanding financial principles and laying the groundwork for robust applications you will learn to build scalable solutions that handle complex financial data with ease by using python for analysis forecasting and data visualization next it moves to explore advanced topics like ai ml applications tailored for finance enabling you to unlock predictive insights and streamline decision making processes you will discover how python integrates cutting edge technologies such as big data and blockchain to offer innovative solutions for modern fintech challenges by the end of this expansive book you will gain the expertise needed to develop sophisticated financial applications visualize data effectively across desktop and web platforms and drive innovation in fintech what will you learn learn to build robust applications tailored for financial analysis modeling and fintech solutions using python learn to analyze large volumes of financial data and visualize insights effectively apply advanced ai ml techniques to predict trends optimize financial strategies and automate decision making processes integrate python with big data platforms and blockchain technologies to work with massive datasets and decentralized financial systems acquire the knowledge and skills to innovate in the fintech space to address modern financial challenges and opportunities who is this book for this book is for working professionals students business managers consultants technical functional analysts anyone wishing to improve their skills in fintech with python this book will be a great start for a programmer who wants to start on the python tech stack and make a career in fintech space the prerequisites for the reader will be basic mathematics and advanced math topics such as time series derivatives and integrals the outcome for the reader will be to understand mathematical modeling and to have capability to develop next gen financial apps table of contents 1 getting started on python infrastructure and building financial apps 2 learning financial concepts using python 3 data structures and algorithms using python 4 object oriented programming using python 5 building simulation and mathematical analysis tools using python 6 stochastic mathematics and building models using python 7 prediction algorithms using python 8 data science and statistical algorithms using python 9 desktop and charting using python 10 ai ml apps using python 11 big data blockchain based solutions using python 12 next generation fintech apps using python with financial singularity index

Ultimate Python for Fintech Solutions *2024-07-12*

unleash the power of ansible to automate workflows streamline operations and revolutionize infrastructure management key features automate tasks with ansible code for error free high performance results master ansible language essentials architecture and ad hoc commands explore ansible s versatile capabilities to gain expertise in linux and windows administration achieve efficient configuration management deployment

and orchestration unlock advanced ansible automation platform and morpheus features description tired of repetitive and time consuming it tasks unlock the true potential of automation with practical ansible automation handbook this comprehensive guide authored by ansible expert luca berton will help you master the art of automation starting with the basics the book introduces ansible s workflow architecture and environment setup through step by step instructions and real world examples you ll gain proficiency in executing core tasks such as provisioning configuration management application deployment automation and orchestration the book covers automating administrative tasks in linux and windows advanced topics like ansible automation platform and morpheus and leveraging cloud computing with amazon services and kubernetes container orchestration practicality and real world scenarios set this book apart it addresses common roadblocks provides best practices and helps you develop a beginner friendly playbook that minimises errors and maximises performance with ansible s commercial viability evident in the market learning it positions you at the forefront of automation expertise whether you re a system administrator network administrator developer or manager this book empowers you to automate everything with ansible embrace the power of automation revolutionize your it operations and unleash new levels of efficiency and productivity in your organisation what will you learn set up and configure ansible environments to automate various tasks execute automation tasks manage configurations and deploy applications leverage ansible automation platform and morpheus for performance optimization of complex workflows design efficient playbooks to streamline operations and troubleshoot using the best practices efficiently automate routine tasks to achieve enterprise level scalability who is this book for this book is targeted towards beginners and developers involved in it operations and who wish to extract the best from ansible for task automation it caters to system administrators network administrators developers and managers in it operations no prior ansible knowledge is needed as it covers basics and advances gradually familiarity with linux and system administration is beneficial by the end readers will have a solid foundation and be ready to implement automation solutions table of contents chapter 1 getting started chapter 2 ansible language core chapter 3 ansible language extended chapter 4 ansible for linux chapter 5 ansible for windows chapter 6 ansible troubleshooting chapter 7 ansible enterprise chapter 8 ansible advanced

Practical Ansible Automation Handbook *2023-07-21*

tagline securing the future of iot with advanced edge computing solutions key features tailored security protocols for edge computing ensuring comprehensive protection against cyber threats master strategies for deploying monitoring and securing edge devices to maintain a resilient iot ecosystem gain valuable insights from real world examples guiding you through the implementation of secure edge computing solutions across diverse industries description embark on a journey into the cutting edge world of secure edge computing in this meticulously crafted handbook delve deep into the intricacies of this

transformative technology that is reshaping the landscape of computing from its fundamental principles to advanced applications this book leaves no stone unturned in demystifying the complexities of secure edge computing explore the architecture that underpins this paradigm shift unraveling how it seamlessly integrates cloud resources with local devices to enhance efficiency and reliability dive into the nuances of security in edge computing understanding the unique challenges posed by distributed networks and diverse endpoints learn essential strategies for safeguarding data integrity confidentiality and availability in this dynamic environment ensuring robust protection against emerging threats discover real world case studies and best practices from industry experts gaining invaluable insights into deploying and managing secure edge computing solutions across various domains with clear explanations practical examples and actionable advice secure edge computing for iot empowers you to harness the full potential of this transformative technology while fortifying your digital infrastructure against evolving security risks prepare to embark on a journey of innovation and resilience at the edge of tomorrow s computing landscape what will you learn understand routing protocols and communication strategies tailored for edge environments implement measures to fortify edge infrastructure against cyber threats and safeguard sensitive data leverage real time insights for informed decision making and innovation integrate ml algorithms to enhance edge capabilities and optimize operations ensure reliability scalability and compliance with industry standards gain practical insights into the development process from design to deployment protect edge infrastructure with encryption authentication and intrusion detection adhere to regulations and best practices in edge computing to ensure regulatory compliance and data privacy understand the components and architecture that underpin edge computing ecosystems explore practical examples and use cases from various industries to illustrate best practices and challenges in implementing secure edge computing solutions who is this book for this book is tailored for a diverse audience of it professionals seeking to deepen their understanding of secure edge computing it is particularly beneficial for devops engineers system administrators cloud architects iot developers data analysts and cybersecurity specialists table of contents 1 introduction to iot and edge computing 2 edge computing fundamentals and use cases 3 edge networking and routing protocols 4 iot and edge computing security 5 data analytics and machine learning at edge 6 secure edge design and development 7 secure edge penetration testing and incident management 8 edge computing cybersecurity and cryptography 9 cloud computing in the context of edge computing 10 secure edge development and implementation index

Secure Edge Computing for IoT *2024-07-05*

tagline power up your automation and administration with powershell key features master powershell for efficient it administration and configuration explore practical scenarios with clear explanations and essential scripts enhance automation skills to stay ahead in it innovation optimize microsoft product

management with advanced powershell techniques description unlock the power of powershell with this comprehensive guide designed as your ultimate companion the book is structured into three parts each focusing on different aspects of powershell you ll start with the basics and then explore powershell core s unique features next you ll delve into building blocks pipelines and data control with arrays loops and hash tables as you progress you ll master powershell security and develop advanced functions to automate complex tasks further chapters will guide you through optimizing windows administration managing tasks and jobs and exploring remoting features for efficient multi system management finally you ll leverage powershell for cloud operations and integrate it seamlessly with the microsoft ecosystem this book provides a progressive journey in powershell automation equipping you with essential skills for various tasks from windows administration to cloud operations what will you learn master powershell and powershell core fundamentals syntax and cmdlets develop robust scripts using variables arrays conditionals loops and hash tables implement security best practices to safeguard data and systems create advanced functions to streamline script development administer windows environments efficiently with powershell automate tasks and optimize system performance with powershell utilize powershell remoting for remote administration and cross platform execution manage cloud resources using powershell for provisioning and configuration integrate powershell with microsoft ecosystem components like active directory and azure create custom modules for enhanced efficiency including support for other cloud vendors enhance powershell scripting and automation skills to automate tasks troubleshoot issues and optimize workflows across diverse computing environments master cloud automation with powershell efficiently automating tasks in azure and aws to manage cloud resources effectively who is this book for this book is tailored for it professionals system administrators database administrators and automation engineers seeking to enhance efficiency through powershell automation across diverse platforms prerequisites include basic understanding of it systems and familiarity with command line interfaces whether managing server configurations administering databases or navigating complex projects this resource equips you with the skills to streamline tasks effectively using powershell table of contents part 1 fundamentals of powershell 1 introduction to powershell 2 introduction to powershell core 3 powershell building blocks and pipelines part 2 powershell scripting and automation 4 data control and arrays using conditional statements loops and hashtables 5 powershell security 6 powershell advanced functions 7 windows administration using powershell part 3 powershell advanced topics 8 powershell tasks and jobs 9 powershell remoting 10 managing cloud operations using powershell 11 powershell and microsoft ecosystem index

Ultimate PowerShell Automation for System Administration 2024-06-18

build rich creative technology projects using 3d ar and vr key features master creative development principles covering design coding and user experience develop advanced skills in three js and a frame for

immersive 3d graphics build engaging ar and vr experiences for the web integrating cutting edge tech for enhanced user immersion description embark on an amazing journey into the world of creative development with this comprehensive guide from the basics of three js and a frame each chapter adds more knowledge and techniques to empower creative developers to navigate the world of creative development readers will learn to build games and commercial applications using advanced technologies such as ar and vr the book explores the key aspects of creative development for the web delving into in depth themes such as dealing with 3d files setting up materials and textures interacting with 3d objects and understanding the concepts of animation loop and real time rendering next it moves on to navigate the main aspects of webar and webvr introducing readers to the fantastic 3d framework a frame readers will dive deep into the a frame workflow learning tips and tricks to build and manage components ultimately enabling them to deliver professional quality ar and vr experiences in the final chapter readers will be presented with creative development best practices and several real world project templates ready to be used and adapted for their own projects what will you learn attain a comprehensive understanding of creative development for web environments and its applications utilize three js and a frame frameworks to create stunning 3d graphics and immersive virtual experiences learn to build engaging games and practical commercial applications blending creativity with functionality gain practical insights into creative development through real world code examples and customizable templates explore the intricacies of web based augmented reality webar and virtual reality webvr technologies to develop immersive web experiences seamlessly integrate 3d graphics video elements and animations using code enabling you to construct dynamic and interactive web applications who is this book for this book is ideal for web developers 3d video and animation enthusiasts with development skills aiming to create dynamic web experiences also suitable for seasoned developers transitioning to creative development covering three js a frame basics and ar vr concepts whether beginner or experienced this handbook offers practical in depth guidance to elevate proficiency in web based creative development table of contents 1 getting started with three js 2 our first scene 3 interacting with our scene 4 adding some realism 5 post processing 6 introduction to webar and webvr 7 creating your first webar experience 8 creating your first webvr experience 9 useful boilerplates to start your projects index

Interactive Web Development with Three.js and A-Frame *2024-04-22*

a comprehensive guide to leverage generative ai in the modern enterprise key features gain a comprehensive understanding of llms within the framework of generative ai from foundational concepts to advanced applications dive into practical exercises and real world applications accompanied by detailed code walkthroughs in python explore llmops with a dedicated focus on ensuring trustworthy ai and best practices for deploying managing and maintaining llms in enterprise settings prioritize the ethical and responsible

use of llms with an emphasis on building models that adhere to principles of fairness transparency and accountability fostering trust in ai technologies description mastering large language models with python is an indispensable resource that offers a comprehensive exploration of large language models llms providing the essential knowledge to leverage these transformative ai models effectively from unraveling the intricacies of llm architecture to practical applications like code generation and ai driven recommendation systems readers will gain valuable insights into implementing llms in diverse projects covering both open source and proprietary llms the book delves into foundational concepts and advanced techniques empowering professionals to harness the full potential of these models detailed discussions on quantization techniques for efficient deployment operational strategies with llmops and ethical considerations ensure a well rounded understanding of llm implementation through real world case studies code snippets and practical examples readers will navigate the complexities of llms with confidence paving the way for innovative solutions and organizational growth whether you seek to deepen your understanding drive impactful applications or lead ai driven initiatives this book equips you with the tools and insights needed to excel in the dynamic landscape of artificial intelligence what will you learn in depth study of llm architecture and its versatile applications across industries harness open source and proprietary llms to craft innovative solutions implement llm apis for a wide range of tasks spanning natural language processing audio analysis and visual recognition optimize llm deployment through techniques such as quantization and operational strategies like llmops ensuring efficient and scalable model usage master prompt engineering techniques to fine tune llm outputs enhancing quality and relevance for diverse use cases navigate the complex landscape of ethical ai development prioritizing responsible practices to drive impactful technology adoption and advancement who is this book for this book is tailored for software engineers data scientists ai researchers and technology leaders with a foundational understanding of machine learning concepts and programming it s ideal for those looking to deepen their knowledge of large language models and their practical applications in the field of ai if you aim to explore llms extensively for implementing inventive solutions or spearheading ai driven projects this book is tailored to your needs table of contents 1 the basics of large language models and their applications 2 demystifying open source large language models 3 closed source large language models 4 llm apis for various large language model tasks 5 integrating cohere api in google sheets 6 dynamic movie recommendation engine using llms 7 document and based qa bots with large language models 8 llm quantization techniques and implementation 9 fine tuning and evaluation of llms 10 recipes for fine tuning and evaluating llms 11 llmops operationalizing llms at scale 12 implementing llmops in practice using mlflow on databricks 13 mastering the art of prompt engineering 14 prompt engineering essentials and design patterns 15 ethical considerations and regulatory frameworks for llms 16 towards trustworthy generative ai a novel framework inspired by symbolic reasoning index

Mastering Large Language Models with Python *2024-04-12*

empowering administrators and teams with ultimate solutions for agile project success with jira software key features step by step customization and administration of jira with real world examples and use cases explores the full potential of jira advanced roadmap for strategic project planning and execution create projects in the jira cloud environment to cater to the demands of cloud based project management description the ultimate agile administration with jira begins with an in depth exploration of agile fundamentals providing a comprehensive overview of scrum and kanban frameworks readers will gain proficiency in setting up projects covering the jira product family key terminologies and project templates readers will learn to create boards and implement agile best practices within jira it will help to configure boards for visualizing team progress planning sprints and efficiently prioritizing and estimating tasks it offers insights into jira administration guiding customization of workflows screens and issues to meet unique team requirements and seamlessly integrate them into existing projects in the final section the book explores team managed projects in jira covering filters dashboards reporting and automation rules tips and tricks are also provided to optimize team productivity the book offers an overview of atlassian marketplace plugins atlassian analytics and jira product discovery it comprehensively explores the features of the jira advanced roadmap this book is an invaluable asset for aspiring jira administrators preparing for atlassian certification what will you learn master the fundamentals of agile methodology and jira administration tailored for the jira cloud version navigate and implement basic to advanced features of jira ensuring seamless integration with agile scrum and kanban methodologies administer jira software with customization aligned to your organization s unique business requirements gain practical insights through real life scenarios examples and essential tips guiding you through the entire agile project life cycle within jira dive into the intricacies of jira advanced roadmap features to enhance project planning and execution explore and integrate feature rich plugins from the atlassian marketplace expanding your jira environment s functionality and adapting it to your unique needs who is this book for whether you re a tech or non tech professional student software developer or an aspiring atlassian certified individual this handbook is for you it provides in depth insights into effective jira software administration and is well suited for individuals with foundational jira knowledge table of contents 1 getting started with agile jira and jira terminologies 2 working with project templates 3 creating users groups roles and understanding permissions 4 managing backlog sprints and boards 5 understanding issue types and issue type schemes 6 customizing fields field configuration schemes screens and screen schemes 7 configuring workflows in jira in agile projects 8 filters dashboards and agile reporting 9 jira automation rules 10 managing team managed projects 11 jira best practices and must know features in advanced roadmaps 12 atlassian marketplace and plugins index

Ultimate Agile Administration with Jira 2023-11-30

tagline master cybersecurity with sc 100 your path to becoming a certified architect key features comprehensive coverage of sc 100 exam objectives and topics real world case studies for hands on cybersecurity application practical insights to master and crack the sc 100 certification to advance your career description ultimate microsoft cybersecurity architect sc 100 exam guide is your definitive resource for mastering the sc 100 exam and advancing your career in cybersecurity this comprehensive resource covers all exam objectives in detail equipping you with the knowledge and skills needed to design and implement effective security solutions clear explanations and practical examples ensure you grasp key concepts such as threat modeling security operations and identity management in addition to theoretical knowledge the book includes real world case studies and hands on exercises to help you apply what you ve learned in practical scenarios whether you are an experienced security professional seeking to validate your skills with the sc 100 certification or a newcomer aiming to enter the field this resource is an invaluable tool by equipping you with essential knowledge and practical expertise it aids in your job role by enhancing your ability to protect and secure your organization s critical assets with this guide you will be well on your way to becoming a certified cybersecurity architect what will you learn design and implement comprehensive cybersecurity architectures and solutions conduct thorough threat modeling and detailed risk assessments develop and manage effective security operations and incident response plans implement and maintain advanced identity and access control systems apply industry best practices for securing networks data and applications prepare confidently and thoroughly for the sc 100 certification exam integrate microsoft security technologies into your cybersecurity strategies analyze and mitigate cybersecurity threats using real world scenarios who is this book for this book is tailored for it professionals security analysts administrators and network professionals seeking to enhance their cybersecurity expertise and advance their careers through sc 100 certification individuals with foundational knowledge in cybersecurity principles including experience in security operations identity management and network security will find this book invaluable for learning industry best practices and practical applications on their path to mastering the field table of contents 1 zero trust frameworks and best practices simplified 2 cloud blueprint conforming solutions 3 microsoft security framework compliant solutions 4 cybersecurity threat resilience design 5 compliance driven solution architecture 6 identity and access control design 7 designing access security for high privilege users 8 security operations design 9 microsoft 365 security design 10 application security design 11 data protection strategy development 12 security specifications for cloud services 13 hybrid and multi cloud security framework 14 secure endpoint solution design 15 secure network design index

Ultimate Microsoft Cybersecurity Architect SC-100 Exam Guide *2024-05-24*

tagline unlock the power of data manipulation with pandas key features master pandas from basics to advanced and its data manipulation techniques visualize data effectively with matplotlib and explore data efficiently learn through hands on examples and practical real world use cases description unlock the power of pandas the essential python library for data analysis and manipulation this comprehensive guide takes you from the basics to advanced techniques ensuring you master every aspect of pandas you ll start with an introduction to pandas and data analysis followed by in depth explorations of pandas series and dataframe the core data structures learn essential skills for data cleaning and filtering and master grouping and aggregation techniques to summarize and analyze your data sets effectively discover how to reshape and pivot data join and merge multiple datasets and handle time series analysis enhance your data analysis with compelling visualizations using matplotlib and apply your knowledge in a real world scenario by analyzing bank customer churn through hands on examples and practical use cases this book equips you with the tools to clean filter aggregate reshape merge and visualize data effectively transforming it into actionable insights what will you learn wrangle data efficiently using pandas cleaning filtering and transformation techniques unlock hidden patterns with advanced grouping joining and merging operations master time series analysis with pandas to extract valuable insights from your data apply pandas to real world scenarios like customer churn analysis and financial modeling unleash the power of data visualization with matplotlib and craft compelling charts and graphs enhance your workflow with essential pandas optimizations and performance tips who is this book for this book is ideal for aspiring data scientists analysts and python enthusiasts looking to enhance their data manipulation skills using pandas familiarity with python programming basics and a basic understanding of data structures will greatly benefit readers as they delve into the concepts presented in this book table of contents 1 introduction to pandas and data analysis 2 pandas series 3 pandas dataframe 4 data cleaning with pandas 5 data filtering with pandas 6 grouping and aggregating data 7 reshaping and pivoting in pandas 8 joining and merging data in pandas 9 introduction to time series analysis in pandas 10 visualization using matplotlib 11 analyzing bank customer churn using pandas index

Ultimate Pandas for Data Manipulation and Visualization *2024-06-10*

2001-12

revolutionizing bfsi with data analytics key features real world examples and exercises will ground you in the practical application of analytics techniques specific to bfsi master python for essential coding sql for data manipulation and industry leading tools like ibm spss and power bi for sophisticated analyses understand how data driven strategies generate profits mitigate risks and redefine customer support dynamics within the bfsi sphere description are you looking to unlock the transformative potential of data analytics in the dynamic world of banking financial services and insurance bfsi this book is your essential guide to mastering the intricate interplay of data science and analytics that underpins the bfsi landscape designed for intermediate level practitioners as well as those aspiring to join the ranks of bfsi analytics professionals this book is your compass in the data driven realm of banking address the unique challenges and opportunities of the bfsi sector using artificial intelligence and machine learning models for a data driven analysis this book is a step by step guide to utilize tools like ibm spss and microsoft power bi hands on examples that utilize python and sql programming languages make this an essential guide the book features numerous case studies that illuminate various use cases of analytics in bfsi each chapter is enriched with practical insights and concludes with a valuable multiple choice questionnaire reinforcing understanding and engagement this book will uncover how these solutions not only pave the way for increased profitability but also navigate risks with precision and elevate customer support to unparalleled heights what will you learn delve into the world of data science including artificial intelligence and machine learning with a focus on their application within bfsi explore hands on examples and step by step tutorials that provide practical solutions to real world challenges faced by banking institutions develop skills in essential programming languages such as python fundamentals and sql intermediate crucial for effective data manipulation and analysis gain insights into how businesses adapt data driven strategies to make informed decisions leading to improved operational efficiency stay updated on emerging trends technologies and innovations shaping the future of data analytics in the bfsi industry who is this book for this book is tailored for professionals already engaged in or seeking roles within data analytics in the bfsi industry additionally it serves as a strategic resource for business leaders and upper management guiding them in shaping data platforms and products within their organizations the book also serves as a starting point for individuals interested in the bfsi sector prior experience with coding tools such as python sql power bi is beneficial but not required as it covers all dimensions from the basics table of contents 1 introduction to bfsi and data driven banking 2 introduction to analytics and data science 3 major areas of analytics utilization 4 understanding infrastructures behind bfsi for analytics 5 data governance and ai ml model governance in bfsi 6 domains of bfsi and team planning 7 customer demographic analysis and customer segmentation 8 text mining and social media analytics 9 lead generation through analytical reasoning and machine learning 10 cross sell and up sell of products through

machine learning 11 pricing optimization 12 data envelopment analysis 13 atm cash forecasting 14 unstructured data analytics 15 fraud modelling 16 detection of money laundering and analysis 17 credit risk and stressed assets 18 high performance architectures on premises and cloud 19 growing trends in the data driven future of bfsi

Practical Data Analytics for BFSI *2023-09-02*

empowering the global workforce with chatgpt expertise key features comprehensive guide to gpt evolution ai capabilities and prompt engineering design patterns for enterprise personas architectures and ai assistants management of the gpt solution development cycle description ultimate chatgpt handbook for enterprises is your indispensable resource for navigating the transformative world of chatgpt within the enterprise domain it provides a deep dive into chatgpt s evolution capabilities and its potential to democratize technology interactions through natural language throughout its chapters you ll embark on a journey that spans from comprehending the lineage of gpt models to mastering advanced prompt engineering techniques it will help you take a step into a futuristic enterprise landscape where chatgpt seamlessly collaborates with human intelligence fundamentally transforming daily work routines across various enterprise roles the latter chapters will help you attain proficiency in managing gpt projects discovering the agile and iterative approach to gpt solution life cycles using real world scenarios you will also be introduced to practical gpt implementation frameworks for both python and java this book offers practical insights and applicable skills fostering informed dialogue and active participation in the ongoing enterprise ai revolution if you want to stay at the forefront of the rapidly evolving ai landscape and unlock enterprise excellence through chatgpt this book is your go to companion what will you learn discover strategies to maximize chatgpt s capabilities fostering innovation and process optimization across global industry sectors develop proficiency in crafting effective prompts using prompt engineering for seamless ai interactions enhancing chatgpt s utility in enterprise contexts acquire the expertise to design intelligent assistants that elevate enterprise operations promoting efficiency and innovation gain practical skills to implement chatgpt solutions using python and java enabling seamless integration with your enterprise systems learn effective project management from initiation to validation and change management ensuring successful gpt solution implementation in enterprises explore how chatgpt can reshape various roles boosting productivity and fostering harmonious ai human collaboration in the workplace who is this book for this book is designed for business professionals it specialists and ai enthusiasts who are eager to delve into the transformative world of chatgpt and its applications in the enterprise landscape a foundational understanding of ai concepts and familiarity with enterprise dynamics will be beneficial but not mandatory as the book is structured to guide readers from basic concepts to advanced implementations catering to both novices and experts alike table of contents 1 from gpt 1 to chatgpt 4 the

evolution towards generative ai 2 capabilitygpt an enterprise ai capability framework for chatgpt 3 the impact of chatgpt on the enterprise 4 architecture patterns enabled by gpt models 5 advanced gpt prompt engineering techniques 6 designing prompt based intelligent assistants 7 mastery of gpt projects 8 langchain gpt implementation framework for python 9 predictive powers gpt implementation framework for java appendix a appendix b

Ultimate ChatGPT Handbook for Enterprises *2023-11-20*

tagline learn the ins and outs of a rabbitmq enabled microservices system key features discover the fundamental principles of microservices and their organizational impact develop a deep understanding of messaging and rabbitmq within microservices architecture acquire the expertise to seamlessly integrate and maximize the benefits of microservices with rabbitmq for creating of robust and high performing systems description embark on a transformative journey into the world of microservices architecture with ultimate microservices with rabbitmq this comprehensive resource equips you with the knowledge and tools needed to design deploy and manage scalable microservices architectures using rabbitmq as a messaging backbone from laying the groundwork with foundational concepts to implementing advanced techniques this book covers everything you need to know to build resilient and high performing microservices based systems it dives into the intricacies of rabbitmq messaging to leverage its capabilities to facilitate communication and data exchange across distributed systems you will discover best practices for designing scalable and fault tolerant microservices architectures and gain insights into effective integration strategies the book will help you learn to combine microservices and rabbitmq for designing building and maintaining robust architectures that leverage the strengths of both paradigms by the end of this book you will be primed to navigate the complexities of modern software development with confidence driving innovation and efficiency in professional endeavors what will you learn gain a solid understanding of microservices fundamentals and their organizational impact explore various messaging paradigms and their application within rabbitmq implement rabbitmq as a message broker within your microservices architecture understand the prerequisites for maintaining a resilient microservices setup with rabbitmq explore upcoming trends in message driven microservices architectures who is this book for this book is tailored for software developers architects and engineering managers intrigued by microservices and messaging with rabbitmq whether you re an entry level developer or a seasoned architect this book offers valuable insights and guidance to help you grasp the fundamental concepts and practical considerations essential for navigating the complexities of microservices with rabbitmq table of contents 1 an introduction to microservices 2 a deeper look into microservices 3 an introduction to rabbitmq 4 rabbitmq use cases 5 designing a microservices architecture with rabbitmq 6 running a microservices architecture with rabbitmq 7 the future of microservices 8 the future of rabbitmq index

Ultimate Microservices with RabbitMQ *2024-05-28*

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InDesign EPUB&PDF *2011-04*

harness flutter as a cross platform framework to create applications for ios and android from a single unified codebase description flutter handbook is the key to becoming a proficient flutter app developer catering to all levels from beginners to experts this comprehensive guide takes you by the hand providing step by step instructions on every aspect of flutter app development starting from the basics you ll learn how to install and run flutter as well as core concepts such as widgets state management and navigation as you progress the book delves deep into advanced topics such as implementing crud create read update delete functions using firebase firestore flutter handbook is more than just a tutorial book it also provides invaluable tips tricks and small tasks at the end of each chapter to reinforce your understanding and equip you with real world skills by the end of this journey you ll have the expertise to release your flutter app to the play store or app store with confidence what will you learn build feature rich and high performance applications with dart and flutter explore advanced ui design principles to create stunning responsive layouts that captivate your users utilize resources strategies and techniques to keep up with the ever evolving world of flutter and mobile app development achieve cross platform app excellence by developing applications that seamlessly adapt to both ios and android platforms work through real world projects to construct complete applications gaining invaluable hands on experience who is this book for this book is tailor made for aspiring mobile app developers experienced developers and flutter enthusiasts eager to kickstart their journey using flutter and deepen their expertise and harness its full potential while prior knowledge of basic programming concepts and flutter fundamentals is beneficial this book is designed to be inclusive accommodating learners at various experience levels whether you re a beginner or an experienced developer you ll find valuable insights and practical guidance to enhance your flutter skills table of contents 1 introduction to flutter 2 getting started 3 widgets widgets widgets 4 stateful and stateless widgets 5 navigation and routing 6 firebase firestore with flutter 7 futures awaits and async 8 persistence and data modeling 9 deploying

Ultimate Flutter Handbook: *2023-10-04*

navigating databricks with ease for unparalleled data engineering insights key features navigate databricks with a seamless progression from fundamental principles to advanced engineering techniques gain

hands on experience with real world examples ensuring immediate relevance and practicality discover expert insights and best practices for refining your data engineering skills and achieving superior results with databricks description ultimate data engineering with databricks is a comprehensive handbook meticulously designed for professionals aiming to enhance their data engineering skills through databricks bridging the gap between foundational and advanced knowledge this book employs a step by step approach with detailed explanations suitable for beginners and experienced practitioners alike focused on practical applications the book employs real world examples and scenarios to teach how to construct optimize and maintain robust data pipelines emphasizing immediate applicability it equips readers to address real data challenges using databricks effectively the goal is not just understanding databricks but mastering it to offer tangible solutions beyond technical skills the book imparts best practices and expert tips derived from industry experience aiding readers in avoiding common pitfalls and adopting strategies for optimal data engineering solutions this book will help you develop the skills needed to make impactful contributions to organizations enhancing your value as data engineering professionals in today s competitive job market what will you learn acquire proficiency in databricks fundamentals enabling the construction of efficient data pipelines design and implement high performance data solutions for scalability apply essential best practices for ensuring data integrity in pipelines explore advanced databricks features for tackling complex data tasks learn to optimize data pipelines for streamlined workflows who is this book for this book caters to a diverse audience including data engineers data architects bi analysts data scientists and technology enthusiasts suitable for both professionals and students the book appeals to those eager to master databricks and stay at the forefront of data engineering trends a basic understanding of data engineering concepts and familiarity with cloud computing will enhance the learning experience table of contents 1 fundamentals of data engineering 2 mastering delta tables in databricks 3 data ingestion and extraction 4 data transformation and etl processes 5 data quality and validation 6 data modeling and storage 7 data orchestration and workflow management 8 performance tuning and optimization 9 scalability and deployment considerations 10 data security and governance last words index

Ultimate Data Engineering with Databricks 2024-02-14

securing the chain navigating the future of blockchain with confidence key features discover the forefront of blockchain security protocols and risks reveal effective strategies to fortify blockchain system defense embark on practical solutions for real world blockchain challenges description in security challenges with blockchain readers embark on a critical journey through the evolving landscape of blockchain security this essential guide illuminates the intricate security challenges posed by blockchain technology s decentralized nature providing a comprehensive overview of the potential vulnerabilities privacy concerns and trust issues that professionals across industries may encounter through concise

expertly curated content the book equips developers it professionals and blockchain enthusiasts with the knowledge and strategies necessary to build and maintain secure blockchain applications it demystifies complex security concepts offering actionable insights and best practices for safeguarding digital assets against emerging threats and ensuring the integrity of blockchain systems the book extends its purview to critical domains where blockchain intersects with cybersecurity such as supply chain management and identity management drawing from real world case studies and expert insights this book empowers organizations to fortify their defenses and embrace the promise of blockchain technology with confidence what will you learn identify and mitigate blockchain security risks with precision master blockchain s core security mechanisms and protocols engineer secure blockchain applications using industry leading coding standards navigate legal and regulatory landscapes in blockchain security fortify blockchain systems with comprehensive cybersecurity measures evaluate and bolster the security stance of current blockchain solutions who is this book for this book is tailored for blockchain developers cybersecurity analysts it security professionals technology enthusiasts blockchain solution architects it managers compliance officers risk management professionals students researchers and business leaders looking for insights and strategies for effectively managing cybersecurity incidents in blockchain environments table of contents 1 introduction to blockchain technology 2 understanding blockchain security 3 security challenges in public blockchains 4 security challenges in private blockchains 5 security challenges in consortia blockchains 6 security challenges in decentralized finance 7 security challenges in supply chain management 8 security challenges in identity management 9 best practices for blockchain security index

Security Challenges with Blockchain 2024-04-15

reach out for that big goal the methods of change management are outdated today focus and inspiration matter the most rené esteban shows leaders how to help their team to give their all for an attractive goal how to keep it in sight against all odds and how to work towards it with zeal and enthusiasm rené mixes his own tried and tested experiences from the corporate world with surprisingly effective psychological methods do epic stuff explains how leaders develop the kind of outstanding team which will be at the foundation of future organizations there is nothing more attractive than a goal full of purpose which makes everyone move in the same direction the insights from this book will be the tools for your great breakthrough success as a leader top executives from the likes of allianz bmw e on and deutsche telekom contribute their expert knowledge on how to inspire teams and how to help them reach that big audacious goal inspiring and focused rené esteban showcases that achieving epic business goals is possible brian tracy author of the new york times bestseller eat that frog

Do Epic Stuff! *2020-04-08*

practical gateway to securing web applications with oidc oauth saml fido and digital identity to key features dive into real world practical hands on experience with authentication protocols through sample code gain a programmer s perspective on cryptography certificates and their role in securing authentication processes explore a wide array of authentication protocols including tls saml oauth oidc webauthn and digital identity graded step by step guidance that simplifies complex concepts making them accessible to programmers of all levels of expertise description in today s digital landscape web apps evolve rapidly demanding enhanced security this ultimate authentication handbook offers a comprehensive journey into this realm beginning with web authentication basics it builds a strong foundation you ll explore cryptography fundamentals essential for secure authentication the book delves into the connection between authentication and network security mastering federated authentication via oauth and oidc protocols you ll also harness multi factor authentication s power and stay updated on advanced trends the book expands on deepening your understanding of java token jwt fido 2 webauthn and biometric authentication to fortify web apps against multifaceted threats moreover you ll learn to use identity and access management iam solutions for constructing highly secure systems whether you re a developer security enthusiast or simply curious about web security this book unlocks the secrets of secure online interactions what will you learn comprehend application architectures and enhance security measures implement robust security with public key cryptography harness saml oauth and oidc for advanced user authentication and authorization strengthen app security with multi factor authentication transition to passwordless authentication with fido and biometric security stay ahead with insights into digital identity biometric authentication post quantum cryptography and zero trust architecture trends who is this book for this book is for computer programmers web application designers and architects most identity management products focus on the server components while this book intends to serve numerous developers of client integrations who need a conceptual understanding of the standards the sample applications are developed using golang and flutter table of contents 1 introduction to authentication 2 fundamentals of cryptography 3 authentication with network security 4 federated authentication i 5 federated authentication ii oauth and oidc 6 multifactor authentication 7 advanced trends in authentication appendix a the go programming language reference appendix b the flutter application framework appendix c tls certificate creation index

Ultimate Web Authentication Handbook 2023-10-23

master the fundamentals of data analytics at scale key features comprehensive guide to constructing data engineering workflows spanning diverse data sources expert techniques for transforming and visualizing

data to extract actionable insights advanced methodologies for analyzing data and employing machine learning to uncover intricate patterns description embark on a transformative journey into the realm of data analytics with aws with this practical and incisive handbook begin your exploration with an insightful introduction to the fundamentals of data analytics setting the stage for your aws adventure the book then covers collecting data efficiently and effectively on aws laying the groundwork for insightful analysis it will dive deep into processing data uncovering invaluable techniques to harness the full potential of your datasets the book will equip you with advanced data analysis skills unlocking the ability to discern complex patterns and insights it covers additional use cases for data analysis on aws from predictive modeling to sentiment analysis expanding your analytical horizons the final section of the book will utilize the power of data virtualization and interaction revolutionizing the way you engage with and derive value from your data gain valuable insights into emerging trends and technologies shaping the future of data analytics and conclude your journey with actionable next steps empowering you to continue your data analytics odyssey with confidence what will you learn construct streamlined data engineering workflows capable of ingesting data from diverse sources and formats employ data transformation tools to efficiently cleanse and reshape data priming it for analysis perform ad hoc queries for preliminary data exploration uncovering initial insights utilize prepared datasets to craft compelling interactive data visualizations that communicate actionable insights develop advanced machine learning and generative ai workflows to delve into intricate aspects of complex datasets uncovering deeper insights who is this book for this book is ideal for aspiring data engineers analysts and data scientists seeking to deepen their understanding and practical skills in data engineering data transformation visualization and advanced analytics it is also beneficial for professionals and students looking to leverage aws services for their data related tasks table of contents 1 introduction to data analytics and aws 2 getting started with aws 3 collecting data with aws 4 processing data on aws 5 descriptive analytics on aws 6 advanced data analysis on aws 7 additional use cases for data analysis 8 data visualization and interaction on aws 9 the future of data analytics 10 conclusion and next steps index

Advanced Data Analytics with AWS *2024-04-17*

powering industrial growth with iot innovations key features unlock the potential of iot across industries while honing your skills to design and build iot devices dive into architectural frameworks enriched with real world examples to navigate iot complexities and implement effective solutions for tangible results gain insights into emerging trends shaping the future of iot and industry 4 0 description embark on a journey through the transformative landscape of iot with this comprehensive guide mastering iot for industrial environments from its inception in the industrial revolution to its pivotal role in industry 4 0 each chapter provides a deep dive into essential concepts it will explore iot architecture

microcontrollers communication protocols and interfacing protocols delve into mqtt the protocol for iot and machine to machine communication discover the transition to esp idf and the future of iot in industry 4 0 this book provides readers with practical insights into implementing iot solutions within industrial contexts through a meticulously curated array of case studies and real world applications readers gain invaluable perspectives on the prevailing iot trends shaping industrial landscapes spanning from intelligent factories and predictive maintenance to supply chain optimization and energy management the book addresses a spectrum of topics reflective of contemporary industrial challenges and opportunities what will you learn gain a comprehensive understanding of industry 4 0 delving into its historical context and core principles with a focus on its technological cornerstone iot explore the layered architecture of iot covering perception network cloud and application layers dive into the functionalities and applications of microcontrollers in iot projects particularly arduino and esp microcontrollers for beginners understand the iot product development framework and the significance of machine to machine communication in the iot ecosystem across various domains comprehend the diverse communication protocols used in iot systems analyzing their strengths weaknesses and practical applications who is this book for this book is tailored for engineers and professionals within industrial sectors looking to grasp and execute iot solutions effectively it also caters to students academics delving into iot studies and individuals keen on staying abreast of the latest trends in industry 4 0 table of contents 1 industrial revolution with iot 2 the architecture of iot 3 microcontrollers the brain behind iot devices 4 communication protocols in iot 5 introduction to interfacing protocols 6 mqtt the protocol for internet of things 7 machine to machine communication 8 shifting to esp idf 9 iot in industry 4 0 index

Mastering IoT For Industrial Environments *2024-03-06*

everything you need to know about self publishing in one handy volume more than a million books are self published each year and most disappear into the ether seen by only a few so how do you self publish your book and have it make a ripple in this giant self publishing pond designed for use by both the beginner and moderately experienced person the self publishing road map offers practical guidance to make your self publishing journey a success the book discusses how to ready your book for publication where and how to publish online how to get reviews and how to market your title this book gives you all the steps you need to successfully complete your self publishing goals this isn t a get rich quick book or a promise of untold riches this is practical advice that pays off what you put into it if you re ready to start your self publishing journey or already started and want somebody to ride shotgun and navigate this is the book for you buckle up it s time to go

Self-Publishing Road Map 2015-04-01

tagline build decentralized applications today for a better tomorrow key features build secure scalable and resilient web3 cardano blockchain applications project based learning connects blockchain concepts to project architecture and source code discover new employment opportunities business models and markets description unlock the full potential of the cardano blockchain for building decentralized 3 0 apps with ultimate cardano smart contracts this book takes you on a journey from the basics of blockchain evolution cryptography and cardano s unique consensus algorithm to the intricacies of transactions and smart contracts you ll dive deep into plutus cardano s native smart contract language and master essential tools like the transaction builder and validators learn how to mint your own tokens and utilize the best development tools available through a real world ticketing application project you ll design implement test and deploy a decentralized application ensuring robust security and scalability troubleshoot common issues and explore the vibrant cardano ecosystem filled with resources and communities to support your ongoing development journey by the end of this book you ll have the skills and confidence to create sophisticated smart contracts and contribute to the innovative world of cardano what will you learn gain a comprehensive understanding of blockchain technology and cardano s innovative approach develop and deploy a variety of smart contracts on the cardano blockchain master the creation and interaction with both fungible tokens fts and non fungible tokens nfts for diverse use cases implement advanced testing methodologies to ensure the security and reliability of your smart contracts design and build scalable decentralized applications dapps using cardano s plutus language explore real world case studies and best practices for successful smart contract development engage with the vibrant cardano community and contribute confidently to the ecosystem who is this book for this book is tailored for software developers architects analysts computer science students and blockchain enthusiasts looking to expand their knowledge and skills it s ideal for entrepreneurs who want to learn about cardano s capabilities to build decentralized applications and create new business opportunities table of contents 1 blockchain evolution 2 cryptography and consensus algorithms overview 3 transactions 4 plutus 5 transaction builder 6 validators 7 minting 8 tooling 9 ticket application design 10 ticket application implementation 11 testing security and scaling 12 troubleshooting 13 cardano ecosystem 14 closing remarks bibliography index

Ultimate Cardano Smart Contracts 2024-06-14

tagline master cisco collaboration infrastructure one chapter at a time key features comprehensive lifecycle coverage of cisco collaboration infrastructure practical application focus for real world admin scenarios and troubleshooting includes numerous references and resources for holistic implementation and further exploration description this comprehensive book is designed to help it professionals master the

complex landscape of cisco collaboration infrastructure it covers a wide range of topics from the basics of collaboration technologies and deployment models to advanced concepts like dial plan configuration media resources and conferencing the book also explores the cisco webex suite hybrid solutions and edge servers providing readers with a holistic understanding of cisco s collaboration offerings readers will gain a deep understanding of signaling and media protocols including sip rtp and rtcp as well as essential protocols like dtmf and fax over ip the book also addresses security compliance and recovery strategies ensuring that readers are well equipped to handle the challenges of managing cisco collaboration infrastructure in real world scenarios throughout the book practical examples and real world insights are provided along with an introduction to automation and apis in the context of cisco collaboration solutions by the end of this book readers will have a comprehensive toolkit to excel in managing cisco collaboration infrastructure whether they are novice it admins professionals preparing for cisco collaboration exams or experienced administrators looking to upgrade their skills the book also includes additional resources and discusses emerging trends ensuring that readers stay up to date with the latest developments in the field what will you learn gain practical skills to deploy and manage cisco s collaboration tools ensuring smooth operations and integration within your organization s infrastructure learn to set up and resolve issues with essential components like dial plans media resources and conferencing systems to ensure seamless communication understand and implement signaling and media protocols like sip rtp and rtcp for effective cisco collaboration implementation develop strategies to protect and sustain your cisco collaboration environment addressing security concerns and maintaining operational health discover how to leverage apis for automating routine tasks improving efficiency and enhancing the functionality of cisco collaboration tools stay updated with the latest advancements and trends in collaboration tech ensuring your skills and knowledge remain current and relevant who is this book for this book is designed for it professionals network administrators and engineers who manage or plan to deploy cisco collaboration infrastructure in their organizations readers should have a basic understanding of networking and ip telephony concepts before diving in table of contents 1 introduction to modern collaboration technologies 2 understanding cisco collaboration solutions 3 managing endpoints and users 4 mastering cucm call control and telephony features 5 dial plans basics to advance 6 media resources conferencing and av solutions 7 exploring cisco collaboration cloud hybrid and edge 8 understanding signaling and media protocols 9 deep dive signaling and media protocols 10 security compliance and recovery 11 troubleshooting techniques and tools 12 automation and apis in cisco collaboration 13 additional resources and emerging trends index

Ultimate Cisco Collaboration Infrastructure for Enterprise Solutions

level up your security skills with linux expertise key features comprehensive exploration of linux network security and advanced techniques to defend against evolving cyber threats hands on exercises to reinforce your understanding and gain practical experience in implementing cybersecurity strategies gain valuable insights from industry best practices to effectively address emerging threats and protect your organization s digital assets within the evolving landscape of linux network security book description the ultimate linux network security for enterprises is your essential companion to mastering advanced cybersecurity techniques tailored for linux systems the book provides a comprehensive exploration of linux network security equipping you with the skills and knowledge needed to defend against evolving cyber threats through hands on exercises real world scenarios and industry best practices this book empowers you to fortify your organization s networks with confidence discover practical insights and techniques that transcend theoretical knowledge enabling you to apply effective cybersecurity strategies in your job role from understanding fundamental concepts to implementing robust security measures each chapter provides invaluable insights into securing linux based networks whether you are tasked with conducting vulnerability assessments designing incident response plans or implementing intrusion detection systems this book equips you with the tools and expertise to excel in your cybersecurity endeavors by the end of this book you will gain the expertise needed to stay ahead of emerging threats and safeguard your organization s digital assets what you will learn perform thorough vulnerability assessments on linux networks to pinpoint network weaknesses develop and deploy resilient security incident response plans configure and oversee sophisticated firewall and packet filtering rules employ cryptography techniques to ensure secure data transmission and storage implement efficient intrusion detection and prevention systems ids ips enforce industry leading best practices to bolster linux network security defenses table of contents 1 exploring linux network security fundamentals 2 creating a secure lab environment 3 access control mechanism in linux 4 implementing firewalls and packet filtering 5 mastering cryptography for network security 6 intrusion detection system and intrusion prevention system 7 conducting vulnerability assessment with linux 8 creating effective disaster recovery strategies 9 robust security incident response plan 10 best practices for linux network security professionals index

Ultimate Linux Network Security for Enterprises *2024-04-30*

build fast scalable web server applications by harnessing the power of solution driven programming with go key features understanding the core concepts of the go programming language designing and development of modern server applications dealing with different kinds of database management solutions deploying applications with cutting edge technologies monitoring and maintenance of applications with popular tools

description in this book we are going to learn how to design develop and deploy server applications using the go programming language in recent years go has become the industrial standard for these kinds of applications so by learning this a lot of good opportunities can be opened in the market all subjects will be covered through various practical examples this book will cover the state of the art technology for the development of applications and follow all industrial standards at the beginning we will do the preparation for development here we will learn the basics of the go programming language the basics of servers how to set up a project with go and how to design software solutions later we will concentrate more on development we will learn how to develop the application designed in the previous chapters how to use different types of databases how to test our application and how to make it secure at the end of the book we will show how to deploy the application and monitor it after deployment after reading this book the readers can independently develop server applications or include themselves in already started projects what will you learn solve common problems with the go programming language be familiar with the terms related to server applications understand the phases in the software development process be able to independently design software solutions and use some best practices be familiar with multiple different database management solutions relational and nosql and be able to predict which best suits their needs learn how to deploy applications understand and know how to apply monitoring and alerting concepts who this book is for the book is for beginners and experienced developers who want to learn and have a thorough introduction to web development using the go programming language with a lot of practical examples and guidelines on how to install and configure specific tools beginners will easily understand and follow the content covered in this book on the other hand more experienced developers will certainly find some useful tips and tricks table of contents 1 basic concepts of go programming language 2 advanced concepts of go programming language 3 servers 4 setting up a project with go programming language 5 design of applications 6 application layers 7 relational databases and repository layer 8 nosql databases and repository layer 9 testing 10 security 11 deploying application 12 monitoring and alerting

Modern Web Development with Go *2023-03-02*

decode the language of time with python discover powerful techniques to analyze forecast and innovate key features dive into time series analysis fundamentals progressing to advanced python techniques gain practical expertise with real world datasets and hands on examples strengthen skills with code snippets exercises and projects for deeper understanding book description mastering time series analysis and forecasting with python is an essential handbook tailored for those seeking to harness the power of time series data in their work the book begins with foundational concepts and seamlessly guides readers through python libraries such as pandas numpy and plotly for effective data manipulation visualization and exploration offering pragmatic insights it enables adept visualization pattern recognition and anomaly

detection advanced discussions cover feature engineering and a spectrum of forecasting methodologies including machine learning and deep learning techniques such as arima lstm and cnn additionally the book covers multivariate and multiple time series forecasting providing readers with a comprehensive understanding of advanced modeling techniques and their applications across diverse domains readers develop expertise in crafting precise predictive models and addressing real world complexities complete with illustrative examples code snippets and hands on exercises this manual empowers readers to excel make informed decisions and derive optimal value from time series data what you will learn understand the fundamentals of time series data including temporal patterns trends and seasonality proficiently utilize python libraries such as pandas numpy and matplotlib for efficient data manipulation and visualization conduct exploratory analysis of time series data including identifying patterns detecting anomalies and extracting meaningful features build accurate and reliable predictive models using a variety of machine learning and deep learning techniques including arima lstm and cnn perform multivariate and multiple time series forecasting allowing for more comprehensive analysis and prediction across diverse datasets evaluate model performance using a range of metrics and validation techniques ensuring the reliability and robustness of predictive models table of contents 1 introduction to time series 2 overview of time series libraries in python 3 visualization of time series data 4 exploratory analysis of time series data 5 feature engineering on time series 6 time series forecasting ml approach part 1 7 time series forecasting ml approach part 2 8 time series forecasting dl approach 9 multivariate time series metrics and validation index

Mastering Time Series Analysis and Forecasting with Python *2024-03-26*

how to use chatgpt to write fast validated java code key features discover how to leverage java code generated with chatgpt to expedite the development of practical solutions for everyday programming challenges gain insight into the benefits of harnessing ai to elevate your effectiveness as a software engineer elevate your professional journey by significantly boosting your programming efficiency to swiftly produce reliable tested code harness and validate the potential of chatgpt both directly through the chatgpt java api and indirectly by leveraging chatgpt s java code generation capabilities description embark on a fascinating journey into ai powered software development with chatgpt this transformative book challenges the conventional speed of software development by showcasing a diverse array of inquiries directed at cutting edge ai tools including ask ai chatgpt 3 5 perplexity ai microsoft bing chatbot based on chatgpt 4 0 and the phed mobile app diving deep into the integration of java and chatgpt this book provides readers with a comprehensive understanding of their synergy in programming each carefully crafted question serves as a testament to chatgpt s exceptional ability to swiftly generate java programs the resulting code undergoes rigorous validation using the latest open source eclipse ide and the java

language empowering readers to craft efficient code in a fraction of the usual time the journey doesn t end there this book looks ahead to the promising future of chatgpt unveiling exciting potential enhancements planned by openai these innovations are poised to usher in even more formidable ai driven capabilities for software development what will you learn develop nlp solutions in java for mathematical content and sentiment analysis seamlessly integrate chatgpt with java via openai api harness ai powered code snippet generation and intelligent code suggestions leverage rapid idea prototyping and validation in java development empower the creation of tailored java applications enhance efficiency and expedite prototyping with instant ai insights who is this book for this book is tailored for java programmers it consultants systems and solution architects with fundamental it knowledge it offers practical templates for java programming solutions complete with chatgpt powered examples these templates empower developers working on data processing mathematical analysis and document management facilitating implementations for industries such as manufacturing banking and insurance companies table of contents 1 getting started with chatgpt 2 java programming best practices as stated by chatgpt 3 developing java code for utilizing the chatgpt api 4 java program for using binary search 5 installation of the latest open source eclipse java ide 6 chatgpt generated java code for fourier analysis 7 chatgpt generated java code for the fast fourier transform 8 chatgpt generated java code for indexing a document 9 chatgpt generated java code for saltikov particle distribution 10 chatgpt generated java code to invert a triangular matrix 11 chatgpt generated java code to store a document in the ibm filenet system 12 conclusions and the future of chatgpt for program development 13 appendices for additional questions index

Practical Java Programming with ChatGPT *2023-11-03*

test your data analysis skills to its fullest using python and other no code tools key features comprehensive coverage of python libraries such as pandas numpy matplotlib seaborn julius ai for data acquisition preparation analysis and visualization real world projects and practical applications for hands on learning in depth exploration of low code and no code tools for enhanced productivity description ultimate data analysis and visualization with python is your comprehensive guide to mastering the intricacies of data analysis and visualization using python this book serves as your roadmap to unlocking the full potential of python for extracting insights from data using pandas numpy matplotlib seaborn and julius ai starting with the fundamentals of data acquisition you ll learn essential techniques for gathering and preparing data for analysis from there you ll dive into exploratory data analysis uncovering patterns and relationships hidden within your datasets through step by step tutorials you ll gain proficiency in statistical analysis time series forecasting and signal processing equipping you with the tools to extract actionable insights from any dataset what sets this book apart is its emphasis on real world applications with a series of hands on projects you ll apply your newfound skills to analyze diverse

datasets spanning industries such as finance healthcare e commerce and more by the end of the book you ll have the confidence and expertise to tackle any data analysis challenge with python to aid your journey the book includes a handy python cheat sheet in the appendix serving as a quick reference guide for common functions and syntax what will you learn acquire data from various sources using python including web scraping apis and databases clean and prepare datasets for analysis handling missing values outliers and inconsistencies conduct exploratory data analysis to uncover patterns trends and relationships within your data perform statistical analysis using python libraries such as numpy and pandas including hypothesis testing and regression analysis master time series analysis techniques for forecasting future trends and making data driven decisions apply signal processing methods to analyze and interpret signals in data such as audio image and sensor data engage in real world projects across diverse industries from finance to healthcare to reinforce your skills and experience utilize python for in depth analysis of real world datasets gaining practical experience and insights refer to the python cheat sheet in the appendix for quick access to common functions and syntax aiding your learning and development who is this book for this book is ideal for beginners professionals or students aiming to enhance their careers through hands on experience in data acquisition preparation analysis time series and signal processing prerequisite knowledge includes basic python and introductory statistics whether starting fresh or seeking to refresh skills this comprehensive guide helps readers upskill effectively table of contents 1 introduction to data analysis and data visualization using python 2 data acquisition 3 data cleaning and preparation 4 exploratory data analysis 5 statistical analysis 6 time series analysis and forecasting 7 signal processing 8 analyzing real world data sets using python appendix a python cheat sheet index

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2024-04-04

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