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    Programming the Internet of Things Andy King,2021-06-10 Learn how to program the Internet of Things with this hands on guide By breaking down IoT programming complexities in step by step building block fashion author and educator Andy King shows you how to design and build your own full stack end to end IoT solution from device to cloud This practical book walks you through tooling development environment setup solution design and implementation You ll learn how a typical IoT ecosystem works as well as how to tackle integration challenges that crop up when implementing your own IoT solution Whether you re an engineering student learning the basics of the IoT a tech savvy executive looking to better understand the nuances of IoT technology stacks or a programmer building your own smart house solution this practical book will help you get started Design an end to end solution that implements an IoT use case Set up an IoT centric development and testing environment Organize your software design by creating abstractions in Python and Java Use MQTT CoAP and other protocols to connect IoT devices and services Create a custom JSON based data format that s consumable across a range of platforms and services Use cloud services to support your IoT ecosystem and provide business value for stakeholders   *Practical Java Programming for IoT, AI, and Blockchain* Perry Xiao,2019-07-02 Learn practical uses for some of the hottest tech applications trending among technology professionals We are living in an era of digital revolution On the horizon many emerging digital technologies are being developed at a breathtaking speed Whether we like it or not whether we are ready or not digital technologies are going to penetrate more and more deeper and deeper into every aspect of our lives This is going to fundamentally change how we live how we work and how we socialize Java as a modern high level programming language is an excellent tool for helping us to learn these digital technologies as well as to develop digital applications such as IoT AI Cybersecurity Blockchain and more Practical Java Programming uses Java as a tool to help you learn these new digital technologies and to be better prepared for the future changes Gives you a brief overview for getting started with Java Programming Dives into how you can apply your new knowledge to some of the biggest trending applications today Helps you understand how to program Java to interact with operating systems networking and mobile applications Shows you how Java can be used in trending tech applications such as IoT Internet of Things AI Artificial Intelligence Cybersecurity and Blockchain Get ready to find out firsthand how Java can be used for connected home devices healthcare the cloud and all the hottest tech applications   **High-Performance Computing and Big Data Analysis** Lucio Grandinetti,Seyedeh Leili Mirtaheri,Reza Shahbazian,2019-10-19 This book constitutes revised and selected papers from the Second International Congress on High Performance Computing and Big Data Analysis TopHPC 2019 held in Tehran Iran in April 2019 The 37 full papers and 2 short papers presented in this volume were carefully reviewed and selected from a total of 103 submissions The papers in the volume are organized acording to the following topical headings deep learning big data analytics Internet of Things data mining neural network and genetic algorithms performance issuesand quantum computing

Computer Vision on AWS Lauren Mullennex,Nate Bachmeier,Jay Rao,2023-03-31 Develop scalable computer vision solutions for real world business problems and discover scaling cost reduction security and bias mitigation best practices with AWS AI ML services Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn how to quickly deploy and automate end to end CV pipelines on AWS Implement design principles to mitigate bias and scale production of CV workloads Work with code examples to master CV concepts using AWS AI ML services Book Description Computer vision CV is a field of artificial intelligence that helps transform visual data into actionable insights to solve a wide range of business challenges This book provides prescriptive guidance to anyone looking to learn how to approach CV problems for quickly building and deploying production ready models You ll begin by exploring the applications of CV and the features of Amazon Rekognition and Amazon Lookout for Vision The book will then walk you through real world use cases such as identity verification real time video analysis content moderation and detecting manufacturing defects that ll enable you to understand how to implement AWS AI ML services As you make progress you ll also use Amazon SageMaker for data annotation training and deploying CV models In the concluding chapters you ll work with practical code examples and discover best practices and design principles for scaling reducing cost improving the security posture and mitigating bias of CV workloads By the end of this AWS book you ll be able to accelerate your business outcomes by building and implementing CV into your production environments with the help of AWS AI ML services What you will learn Apply CV across industries including e commerce logistics and media Build custom image classifiers with Amazon Rekognition Custom Labels Create automated end to end CV workflows on AWS Detect product defects on edge devices using Amazon Lookout for Vision Build deploy and monitor CV models using Amazon SageMaker Discover best practices for designing and evaluating CV workloads Develop an AI governance strategy across the entire machine learning life cycle Who this book is for If you are a machine learning engineer or data scientist looking to discover best practices and learn how to build comprehensive CV solutions on AWS this book is for you Knowledge of AWS basics is required to grasp the concepts covered in this book more effectively A solid understanding of machine learning concepts and the Python programming language will also be beneficial *Research Anthology on Agile Software, Software Development, and Testing* Management Association, Information Resources,2021-11-26 Software development continues to be an ever evolving field as organizations require new and innovative programs that can be implemented to make processes more efficient productive and cost effective Agile practices particularly have shown great benefits for improving the effectiveness of software development and its maintenance due to their ability to adapt to change It is integral to remain up to date with the most emerging tactics and techniques involved in the development of new and innovative software The Research Anthology on Agile Software Software Development and Testing is a comprehensive resource on the emerging trends of software development and testing This text discusses the newest developments in agile software and its usage spanning multiple industries Featuring a collection of insights from

diverse authors this research anthology offers international perspectives on agile software Covering topics such as global software engineering knowledge management and product development this comprehensive resource is valuable to software developers software engineers computer engineers IT directors students managers faculty researchers and academicians

Applied Machine Learning and High-Performance Computing on AWS Mani Khanuja,Farooq Sabir,Shreyas Subramanian,Trenton Potgieter,2022-12-30 Build train and deploy large machine learning models at scale in various domains such as computational fluid dynamics genomics autonomous vehicles and numerical optimization using Amazon SageMaker Key FeaturesUnderstand the need for high performance computing HPC Build train and deploy large ML models with billions of parameters using Amazon SageMakerLearn best practices and architectures for implementing ML at scale using HPCBook Description Machine learning ML and high performance computing HPC on AWS run compute intensive workloads across industries and emerging applications Its use cases can be linked to various verticals such as computational fluid dynamics CFD genomics and autonomous vehicles This book provides end to end guidance starting with HPC concepts for storage and networking It then progresses to working examples on how to process large datasets using SageMaker Studio and EMR Next you ll learn how to build train and deploy large models using distributed training Later chapters also guide you through deploying models to edge devices using SageMaker and IoT Greengrass and performance optimization of ML models for low latency use cases By the end of this book you ll be able to build train and deploy your own large scale ML application using HPC on AWS following industry best practices and addressing the key pain points encountered in the application life cycle What you will learnExplore data management storage and fast networking for HPC applicationsFocus on the analysis and visualization of a large volume of data using SparkTrain visual transformer models using SageMaker distributed trainingDeploy and manage ML models at scale on the cloud and at the edgeGet to grips with performance optimization of ML models for low latency workloadsApply HPC to industry domains such as CFD genomics AV and optimizationWho this book is for The book begins with HPC concepts however it expects you to have prior machine learning knowledge This book is for ML engineers and data scientists interested in learning advanced topics on using large datasets for training large models using distributed training concepts on AWS deploying models at scale and performance optimization for low latency use cases Practitioners in fields such as numerical optimization computation fluid dynamics autonomous vehicles and genomics who require HPC for applying ML models to applications at scale will also find the book useful **Internet of Things. A Confluence of Many Disciplines** Augusto Casaca,Srinivas Katkoori,Sandip Ray,Leon Strous,2020-03-18 This book constitutes the refereed post conference proceedings of the Second IFIP International Cross Domain Conference on Internet of Things IFIPIoT 2019 held in Tampa USA in October November 2019 The 11 full papers presented were carefully reviewed and selected from 22 submissions Also included in this volume are 8 invited papers The papers are organized in the following topical sections IoT applications context reasoning and situational awareness IoT security smart and low power IoT

smart network architectures and smart system design and IoT education **AWS Certified SysOps Administrator Official Study Guide** Stephen Cole,Gareth Digby,Chris Fitch,Steve Friedberg,Shaun Qualheim,Jerry Rhoads,Michael Roth,Blaine Sundrud,2017-10-16 Comprehensive interactive exam preparation and so much more The AWS Certified SysOps Administrator Official Study Guide Associate Exam is a comprehensive exam preparation resource This book bridges the gap between exam preparation and real world readiness covering exam objectives while guiding you through hands on exercises based on situations you ll likely encounter as an AWS Certified SysOps Administrator From deployment management and operations to migration data flow cost control and beyond this guide will help you internalize the processes and best practices associated with AWS The Sybex interactive online study environment gives you access to invaluable preparation aids including an assessment test that helps you focus your study on areas most in need of review and chapter tests to help you gauge your mastery of the material Electronic flashcards make it easy to study anytime anywhere and a bonus practice exam gives you a sneak preview so you know what to expect on exam day Cloud computing offers businesses a cost effective instantly scalable IT infrastructure The AWS Certified SysOps Administrator Associate credential shows that you have technical expertise in deployment management and operations on AWS Study exam objectives Gain practical experience with hands on exercises Apply your skills to real world scenarios Test your understanding with challenging review questions Earning your AWS Certification is much more than just passing an exam you must be able to perform the duties expected of an AWS Certified SysOps Administrator in a real world setting This book does more than coach you through the test it trains you in the tools procedures and thought processes to get the job done well If you re serious about validating your expertise and working at a higher level the AWS Certified SysOps Administrator Official Study Guide Associate Exam is the resource you ve been seeking LabVIEW Graphical Programming, Fifth Edition Richard Jennings,2019-11-15 LabVIEW programming techniques tips and practices Learn to build effective LabVIEW programs using the detailed information contained in this thoroughly revised resource This edition updates all content to align with the latest version and adds new chapters that clearly explain object oriented programming methods and programming in teams using the cloud LabVIEW Graphical Programming Fifth Edition begins with basics for beginners and quickly progresses to intermediate and advanced programming techniques Written by a pair of LabVIEW experts this hands on guide shows how to work with data types start building your own applications handle I O and use the DAQmix library You will also find out how to build applications that communicate with enterprise message brokers and with Amazon Web Services Internet of Things IoT message broker Coverage includes The origin and evolution of LabVIEW LabVIEW programming fundamentals Data acquisition Object oriented programming in LabVIEW Frameworks including the Delacor Queued Message Handler DQMH and Actor Framework Unit testing Enterprise and IoT messaging Programming in teams using the cloud *Internet of Things from Scratch* Renaldi Gondosubroto,2024-02-16 Kickstart your IoT design and implementation journey with this comprehensive

book covering basics to advanced concepts through practical examples and industry standard practices Key Features Master the different components that make up an IoT system to design and implement solutions Unlock the powerful capabilities of cloud computing that enhance the efficiency of your IoT deployments Integrate cutting edge technologies such as with generative AI into your IoT projects Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionDevelop the skills essential for building Internet of Things solutions with this indispensable guide In an era where industries heavily rely on IoT this book will quickly familiarize you with its foundations widespread use implementation guided by best practices and the crucial technologies that allow it to work effectively Starting with the use of IoT in real life scenarios this book offers comprehensive insights into basic IoT hardware protocols and technologies You ll then learn about architecting and implementing solutions such as wireless sensor networks cloud computing with AWS and crucial security considerations You ll understand how these systems are operated and monitored over time and work with simple to complex industry grade systems adhering to best practices In later chapters you ll be apprised of future IoT trends and strategies to manage the risks and opportunities that come with them You ll also get to grips with a diverse set of tools including hardware such as ESP32 and Raspberry Pi and software such as Mosquitto and ChatGPT for generative AI capabilities By the end of this IoT book you ll be able to independently build and design complex industry standard solutions fully aligned with best practices What you will learn Gain a holistic understanding of IoT basics through real life use cases Explore communication protocols and technologies integral to IoT Use AWS to build resilient low latency networks Construct complex IoT networks building upon foundational principles Integrate data analytics workloads and generative AI seamlessly with IoT Understand the security threat landscape of IoT and how to mitigate these risks Develop industry grade projects within the open source IoT community Embrace a futuristic perspective of IoT by understanding both risks and rewards Who this book is for The book is for novice electronics engineers embedded systems specialists and IoT developers as well as intermediate practitioners looking to advance in the world of industry based IoT applications While no prior knowledge of IoT is assumed familiarity with at least one programming language is recommended to get the most out of this book   **Learning AWS IoT** Agus Kurniawan,2018-01-29 Learn to use AWS IoT services to build your connected applications with the help of this comprehensive guide Key Features Gets you started with AWS IoT and its functionalities Learn different modules of AWS IoT with practical use cases Learn to secure your IoT communication Book DescriptionThe Internet of Things market increased a lot in the past few years and IoT development and its adoption have showed an upward trend Analysis and predictions say that Enterprise IoT platforms are the future of IoT AWS IoT is currently leading the market with its wide range of device support SDKs and versatile management console This book initially introduces you to the IoT platforms and how it makes our IoT development easy It then covers the complete AWS IoT Suite and how it can be used to develop secure communication between internet connected things such as sensors actuators embedded devices smart applications and so on The book also

covers the various modules of AWS AWS Greengrass AWS device SDKs AWS IoT Platform AWS Button AWS Management consoles AWS related CLI and API references all with practical use cases Near the end the book supplies security related best practices to make bi directional communication more secure When you ve finished this book you ll be up and running with the AWS IoT Suite and building IoT projects What you will learn Implement AWS IoT on IoT projects Learn the technical capabilities of AWS IoT and IoT devices Create IoT based AWS IoT projects Choose IoT devices and AWS IoT platforms to use based on the kind of project you need to build Deploy AWS Greengrass and AWS Lambda Develop program for AWS IoT Button Visualize IoT AWS data Build predictive analytics using AWS IoT and AWS Machine Learning Who this book is for This book is for anyone who wants to get started with the AWS IoT Suite and implement it with practical use cases This book acts as an extensive guide on completion of which you will be in a position to start building IoT projects using AWS IoT platform and using cloud services for your projects **GITHUB COPILOT FOR DEVELOPERS** JOSH RAYMOND, GitHub Copilot is transforming the way developers write code but to truly leverage its power you need more than auto complete suggestions you need smart workflows integration strategies and productivity hacks GitHub Copilot for Developers is a practical hands on guide for 2026 that shows programmers how to use AI to write faster debug smarter and automate repetitive coding tasks This book covers the full journey from getting started with Copilot to embedding AI into real world development workflows so you can improve efficiency without compromising code quality or maintainability What You ll Learn Setting up GitHub Copilot across IDEs and languages Writing code faster with AI assisted suggestions Using Copilot for debugging refactoring and test generation Integrating Copilot into team workflows and CI CD pipelines Automating repetitive coding tasks to save time Best practices for combining human and AI intelligence Using Copilot for Python JavaScript Java NET and more Ethical and practical considerations when using AI generated code Real world tips from professional developers Who This Book Is For Software developers and programmers Students and professionals learning AI assisted coding Teams looking to improve development efficiency Anyone who wants to boost coding productivity using AI Why This Book Works Many tutorials cover features superficially This guide emphasizes workflow integration practical patterns and productivity strategies so you can use Copilot effectively across projects and languages By the end of this book you ll be able to write debug and automate code confidently with AI turning GitHub Copilot from a novelty into a core development tool If you want to master AI assisted coding and modern programming workflows in 2026 GitHub Copilot for Developers is your complete guide

Programming the Internet of Things Andy King,2021-06-10 Learn how to program the Internet of Things with this hands on guide By breaking down IoT programming complexities in step by step building block fashion author and educator Andy King shows you how to design and build your own full stack end to end IoT solution from device to cloud This practical book walks you through tooling development environment setup solution design and implementation You ll learn how a typical IoT ecosystem works as well as how to tackle integration challenges that crop up when implementing your own IoT

solution Whether you re an engineering student learning the basics of the IoT a tech savvy executive looking to better understand the nuances of IoT technology stacks or a programmer building your own smart house solution this practical book will help you get started Design an end to end solution that implements an IoT use case Set up an IoT centric development and testing environment Organize your software design by creating abstractions in Python and Java Use MQTT CoAP and other protocols to connect IoT devices and services Create a custom JSON based data format that s consumable across a range of platforms and services Use cloud services to support your IoT ecosystem and provide business value for stakeholders   **The Definitive Guide to AWS Infrastructure Automation** Bradley Campbell,2019-12-06 Discover the pillars of AWS infrastructure automation starting with API driven infrastructure concepts and its immediate benefits such as increased agility automation of the infrastructure life cycle and flexibility in experimenting with new architectures With this base established the book discusses infrastructure as code concepts in a general form establishing principled outcomes such as security and reproducibility Inescapably we delve into how these concepts enable and underpin the DevOps movement The Definitive Guide to AWS Infrastructure Automation begins by discussing services and tools that enable infrastructure as code solutions first stop AWS s CloudFormation service You ll then cover the ever expanding ecosystem of tooling emerging in this space including CloudFormation wrappers such as Troposphere and orchestrators such as Sceptre to completely independent third party tools such as Terraform and Pulumi As a bonus you ll also work with AWS newly released CDK Cloud Development Kit You ll then look at how to implement modular robust and extensible solutions across a few examples in the process building out each solution with several different tools to compare and contrast the strengths and weaknesses of each By the end of the journey you will have gained a wide knowledge of both the AWS provided and third party ecosystem of infrastructure as code provisioning tools and the strengths and weaknesses of each You ll possess a mental framework for how to craft an infrastructure as code solution to solve future problems based on examples discussed throughout the book You ll also have a demonstrable understanding of the hands on operation of each tool situational appropriateness of each tool and how to leverage the tool day to day What You Will Learn Discover the technological and organizational benefits to infrastructure as code solutions Examine the overall landscape of infrastructure as code tooling and solutions available to consumers of AWS services See the strengths and weaknesses of these tools relative to one another as examined through hands on implementation of several solutions Gain hands on experience best practices and tips and tricks learned through several years real world experience delivering solutions using these very tools in a wide variety of scenarios Engineer solid solutions that leave room for new requirements and changes without requiring needless refactoring Who This Book Is For DevOps engineers cloud engineers and architects focused on the AWS ecosystem software engineers developers working within the AWS ecosystem and engineering leaders looking for best practices   *AWS IoT With Edge ML and Cybersecurity* Syed Rehan,2024-02-12 In an era where the fusion of connectivity and technology is redefining industries this book is a must

have guide for aspiring technologists and seasoned professionals alike This meticulously crafted handbook guides you through every aspect of AWS IoT touching upon vital spheres such as edge computing machine learning and industrial IoT with a distinct spotlight on cybersecurity Over the course of this book industry veteran Syed Rehad unveils the secrets to setting up your AWS IoT environment and walks you through advanced concepts such as leveraging MQTT mastering Digital Twin implementation and plumbing the depths of edge machine learning Whether you re experimenting with virtual devices or hands on with Raspberry Pi setups this book will steer you towards innovation and a transformative journey where technology meets intelligence and security all under the expansive umbrella of AWS IoT What You Will Learn AWS Mastery Dive deep into AWS IoT essentials from setup to hands on SDK tools Advanced Connectivity Explore advanced MQTT features and the potential of AWS IoT Core MQTT clients Device Integration Master AWS IoT device creation connection and deployment blending the digital and physical Digital Twin Unleash IoT s future with AWS IoT device shadow capitalizing on digital twin technology Device Management Transform remote oversight using secure IoT tunnelling and innovative actions Edge Development Merge IoT and Machine Learning via AWS IoT Greengrass spotlighting image classification Data to Insights Swiftly move from raw data to actionable insights leveraging Amazon Timestream IoT Cybersecurity Strengthen your defenses using AWS IoT Device Defender Zero Trust principles and Machine Learning ML Detect to prepare for and counter threats Who This Book Is For IoT developers and enthusiasts professionals who want to implement IoT solutions in industrial scenarios system architects and designers interested in edge machine learning business intelligence analysts and cybersecurity professionals   **Accelerating IoT Development with ChatGPT** Jun Wen,2024-08-30 Build cutting edge projects with ChatGPT PlatformIO ESP32 and Arduino compatible sensors by integrating AWS Cloud and the ThingsBoard dashboard Key Features Leverage ChatGPT to generate code on ESP32 for sending sensor data to AWS Cloud Create your own visualization dashboard on ThingsBoard Cloud Follow step by step configuration guidance to ingest process store and query data on AWS Cloud Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionUnlike other IoT books that focus on theory and generic applications this guide takes a practical approach empowering you to leverage ChatGPT to build your very first IoT prototype With over 20 years of experience in wireless and IoT technologies and a background as an instructor Jun Wen expertly guides you from project kick off to a fully functional prototype The book emphasizes the transformative impact of ChatGPT for IoT teaching you how to use ChatGPT to generate code for your applications even with limited coding experience You ll be introduced to using PlatformIO IDE within Visual Studio Code and discover the cutting edge RISC V architecture the ESP32 MCU Arduino compatible sensors and integration methods for AWS and the ThingsBoard dashboard Working through 10 different project examples including flame detection smoke detection and air quality measurement you ll become proficient in the functions and specifications of each sensor and the use cases they solve By the end of this book you ll be ready to undertake IoT development projects bridging the gap between your ideas

and functional creations What you will learn Master IoT essentials such as networks end devices wireless connectivity and the cloud Explore the ChatGPT prompting framework and build crucial skills for IoT projects Discover best practices for building robust IoT hardware prototypes Find out how to set up Visual Studio Code and PlatformIO IDE Connect ESP32 to AWS through TLS and MQTT Explore popular connectivity technologies widely adopted in IoT Integrate IoT sensors with ESP32 to capture accurate data using ChatGPT s assistance Who this book is for If you re a beginner interested in applying IoT technology to your projects but face challenges due to limited experience in embedded software coding specifically in C and C this book is for you Whether you re a student hardware hobbyist DIY enthusiast IoT developer or professional from a non technical background if you feel that your ability to innovate is often stalled by the complexity of software coding this easy to follow guide to using ChatGPT for generating example code will boost your IoT prototype development   Study Guide for GitHub Copilot Certification (Exam GH-300) Kirill J. Eremenko,Abhishek Parmar, Build job ready GitHub Copilot skills with real world scenarios and workflows crafted for developers students and IT professionals aiming to master AI Assisted development Accelerate your career and validate your expertise with the ultimate study guide for the GitHub Copilot Certification Exam GH 300 Designed for professional developers engineering leads and IT architects this book bridges the gap between theoretical AI concepts and production grade implementation Includes a Bonus Practice Resource As a value add this book grants you access to a companion question bank with 170 additional exam style questions allowing you to test your readiness before sitting for the actual exam Prepare with Confidence The GitHub Copilot GH 300 Certification is the industry standard for validating AI paired programming skills This guide moves beyond basic coding prompts to cover the complex enterprise scenarios tested on the exam from privacy filters and data governance to advanced prompt engineering and SDLC integration Whether you are a senior developer optimizing workflows or a security engineer auditing AI usage this book provides the deep technical clarity required to pass the GH 300 exam on your first attempt What You Will Learn This study guide aligns strictly with the official exam objectives Responsible AI Governance Master the legal ethical and operational frameworks required to deploy AI tools safely in enterprise environments GitHub Copilot Ecosystem Distinguish between Individual Business and Enterprise plans including seat management and policy enforcement Workflow Optimization Learn to integrate Copilot across VS Code JetBrains and the CLI to accelerate coding testing and debugging tasks Advanced Prompt Engineering Techniques for zero shot and few shot prompting context management and guiding the AI to generate secure high quality code Enterprise Administration Configure Copilot Enterprise features including knowledge bases custom models and PR summarization Security Compliance Deep dive into content exclusions duplication detection audit logging and intellectual property protections Troubleshooting Architecture Understand the data flow of code suggestions how to debug missing context and how to optimize latency Table of Contents How to Use This Book Responsible Usage of AI and Limitations Ethical and Responsible Operations Overview of GitHub Copilot Plans GitHub Copilot in the IDE GitHub Copilot

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GitHub Copilot in Action Theo Carrickson,2026-01-06 Write Better Code Faster Without Losing Control AI assisted development is no longer optional GitHub Copilot has changed how modern software is written reviewed and shipped But using Copilot effectively is not about accepting suggestions blindly it is about guiding evaluating and integrating AI assistance as a skilled professional developer GitHub Copilot in Action is a practical no nonsense guide that teaches you how to work with Copilot not rely on it This book shows you how to turn AI suggestions into a productivity advantage while maintaining code quality architectural discipline security awareness and long term maintainability Written for real developers working on real systems this book goes far beyond surface level tips Every chapter focuses on how Copilot behaves in practice how to steer it with intent and when to trust your own judgment over automated suggestions What You ll Learn You will learn how to use GitHub Copilot as a true development partner rather than a code generator The book walks you through writing clearer prompts providing effective context and iterating on suggestions to produce cleaner safer and more maintainable code You will see how Copilot performs across different workflows where it excels where it struggles and how to spot subtle mistakes before they reach production You will also learn how to handle incorrect inefficient or unsafe suggestions how to reason about performance and accuracy trade offs and how to apply responsible and ethical practices when working with AI generated code The later chapters prepare you for the future of AI assisted development helping you build skills that complement AI tools instead of competing with them Every concept is explained in clear developer friendly language and reinforced with real runnable examples that demonstrate exactly how Copilot fits into day to day development work Who This Book Is For This book is for professional developers engineers and technical leads who want to use GitHub Copilot confidently and responsibly It is ideal if you already write production code and want to improve speed without sacrificing correctness security or craftsmanship If you are tired of shallow tutorials generic advice or AI hype and want a grounded practical guide written from a developer s perspective this book is for you Why This Book Is Different Most resources focus on what Copilot can do This book focuses on how to use it well It does not assume AI is perfect and it does not treat developers as passive consumers of suggestions Instead it teaches you how to think critically guide the tool

intentionally and stay in control of your codebase There are no screenshots no filler no marketing jargon just clear explanations hands on examples and hard won best practices you can apply immediately Future Ready Development Starts Here AI will continue to shape how software is built Developers who thrive will be those who understand both the power and the limits of AI assisted tools GitHub Copilot in Action gives you the mindset techniques and confidence to write better code today and stay relevant tomorrow If you are ready to move beyond experimentation and use GitHub Copilot as a serious professional tool this book will become a permanent part of your developer library   GitHub Copilot Charles Sprinter,2025-05-29 Mastering GitHub Copilot for Real World Development Revolutionize Your Development Workflow with AI GitHub Copilot represents the next evolution of AI for developers and Mastering GitHub Copilot is the comprehensive technical guide that shows software developers and professionals how to harness this powerful AI code assistant to accelerate real world software development workflows If you re looking to boost your developer productivity and code smarter using cutting edge tools this book delivers the hands on knowledge you need From Visual Studio Code VS Code to JetBrains IDEs and Neovim learn how to seamlessly integrate GitHub Copilot into your favorite coding environment Whether you re building modern front end interfaces with React developing back end services with Node js and Express or creating robust APIs using Python frameworks like FastAPI and Django you ll find practical techniques to apply AI assistance at every step This guide shows how AI pair programming can elevate your coding in any stack with real world examples demonstrating how Copilot helps write code faster catch bugs earlier and even generate Markdown documentation effortlessly Unlock advanced prompt engineering strategies to communicate effectively with your AI assistant and get accurate code suggestions Discover how to use Copilot for writing unit tests debugging tricky issues and automating routine tasks You ll also learn to integrate Copilot into your DevOps pipeline from generating REST API endpoints and documenting them to streamlining your CI CD workflows with GitHub Actions for continuous integration and deployment What You ll Learn Seamless AI Integration Set up GitHub Copilot in VS Code JetBrains IntelliJ PyCharm and Neovim for instant code suggestions across different development environments Framework Specific Insights Use Copilot to accelerate front end development with React speed up back end coding in Node js with Express and build web APIs faster in Python using FastAPI and Django Prompt Engineering Best Practices Master the art of crafting effective prompts and leveraging natural language to guide Copilot s output ensuring you get relevant and accurate code completions Testing Debugging and Documentation Learn how to generate unit tests troubleshoot code with AI assisted debugging and create clear Markdown documentation for your projects with Copilot s help Automation CI CD See how Copilot can automate boilerplate tasks and integrate into your CI CD pipelines using GitHub Actions to maintain code quality and velocity Each chapter is packed with hands on examples tips and best practices to help you get the most out of GitHub Copilot s capabilities Written in a clear professional style this book cuts through fluff and focuses on practical techniques you can apply immediately in real projects Embrace the

future of software development with AI Whether you re a seasoned software engineer or an aspiring developer Mastering GitHub Copilot will empower you to code smarter faster and with greater confidence Don t get left behind by the AI revolution grab your copy of this essential guide today and transform your development workflow   *AWS Greengrass Developer Guide* Documentation Team,2018-06-26 AWS Greengrass is software that extends AWS cloud capabilities to local devices making it possible for them to collect and analyze data closer to the source of information while also securely communicating with each other on local networks More specifically developers who use AWS Greengrass can author serverless code AWS Lambda functions in the cloud and conveniently deploy it to devices for local execution of applications

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