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An expert guide to implementing fast, secure, and scalable decentralized applications that work with thousands of users in real time Key Features Implement advanced features of the Ethereum network to build powerful decentralized applications Build smart contracts on different domains using the programming techniques of Solidity and Vyper Explore the architecture of Ethereum network to understand advanced use cases of blockchain development Book Description Ethereum is one of the commonly used platforms for building blockchain applications. It's a decentralized platform for applications that can run exactly as programmed without being affected by fraud, censorship, or third-party interference. This book will give you a deep understanding of how blockchain works so that you can discover the entire ecosystem, core components, and its implementations. You will get started by understanding how to configure and work with various Ethereum protocols for developing dApps. Next, you will learn to code and create powerful smart contracts that scale with Solidity and Vyper. You will then explore the building blocks of the dApps architecture, and gain insights on how to create your own dApp through a variety of real-world examples. The book will even guide you on how to deploy your dApps on multiple Ethereum instances with the required best practices and techniques. The next few chapters will delve into advanced topics such as, building advanced smart contracts and multi-page frontends using Ethereum blockchain. You will also focus on implementing machine learning techniques to build decentralized autonomous applications, in addition to covering several use cases across a variety of domains such as, social media and e-commerce. By the end of this book, you will have the expertise you need to build decentralized autonomous applications confidently. What you will learn Apply scalability solutions on dApps with Plasma and state channels Understand the important metrics of blockchain for analyzing and determining its state Develop a decentralized web application using React.js and Node.js Create oracles with Node.js to provide external data to smart contracts Get to grips with using Etherscan and block explorers for various transactions Explore web3.js, Solidity, and Vyper for dApps communication Deploy apps with multiple Ethereum instances including TestRPC, private chain, test chain, and mainnet Who this book is for This book is for anyone who wants to build fast, highly secure, and transactional decentralized applications. If you are an Ethereum developer looking to perfect your existing skills in building powerful blockchain applications, then this book is for you. Basic knowledge of Ethereum and blockchain is necessary to understand the concepts covered in this book.

Written by security experts at the forefront of this dynamic industry, this book teaches state-of-the-art smart contract security principles and practices. Smart contracts are an innovative application of blockchain technology. Acting as decentralized custodians of digital assets, they allow us to transfer value and information more effectively by reducing the need to trust a third party. By eliminating the need for intermediaries, smart contracts have the potential to massively scale the world economy and unleash the potential for faster and more efficient solutions than traditional systems could ever provide. But there's one catch: while blockchains are secure, smart contracts are not. Security vulnerabilities in smart contracts have led to over $250 million USD in value to be lost or stolen. For smart contract technology to achieve its full potential, these security vulnerabilities need to be addressed. Written by security experts at the forefront of this dynamic industry, this book teaches state-of-the-art smart contract security principles and practices. Help us secure the future of blockchain technology and join us at the forefront today!

Summary Building Ethereum Dapps introduces you to decentralized applications based on the Ethereum blockchain platform. In this book, you'll learn the principles of Dapps development by rolling up your sleeves and actually building a few! Foreword by Thomas Bertani. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Imagine unbreakably secure applications that handle personal and business transactions without any central agency controlling the process. Decentralized applications, or Dapps, do just this, shifting power to users. The Ethereum blockchain platform provides the tools you need to build Dapps, including an innovative "smart contracts" model and Solidity, a Dapp-aware JavaScript-like programming language. About the Book Building Ethereum Dapps teaches Dapps development on the Ethereum blockchain platform. You'll begin with a mental model of how Dapps operate, and then dive into designing and implementing smart contracts in Ethereum's Solidity language. You'll explore Ethereum smart contract development tools, like Truffle and Web3, and pick up best practices for design and security. Practical exercises throughout give you valuable hands-on experience. What's inside Ethereum's key components Implementing smart

contracts in Solidity Communicating with a smart contract in Web3 Developing Dapps with Truffle Best practices for design and security improvement About the Reader For developers with intermediate experience in JavaScript or an OO language. Familiarity with blockchain concepts is helpful. About the Author Roberto Infante is a software development consultant who specializes in finance. He currently works on financial risk management systems and on blockchain technology. Table of Contents PART 1 A first look at decentralized applications Understanding the blockchain The Ethereum platform Deploying your first smart contract PART 2 Programming smart contracts in Solidity Writing more complex smart contracts Generalizing functionality with abstract contracts and interfaces Managing smart contracts with Web3.js PART 3 The Ethereum ecosystem Unit testing contracts with Mocha Improving the development cycle with Truffle Putting it all together: Building a complete voting Dapp PART 4 Making a Dapp production ready Security considerations Conclusions

Ethereum represents the gateway to a worldwide, decentralized computing paradigm. This platform enables you to run decentralized applications (DApps) and smart contracts that have no central points of failure or control, integrate with a payment network, and operate on an open blockchain. With this practical guide, Andreas M. Antonopoulos and Gavin Wood provide everything you need to know about building smart contracts and DApps on Ethereum and other virtual-machine blockchains. Discover why IBM, Microsoft, NASDAQ, and hundreds of other organizations are experimenting with Ethereum. This essential guide shows you how to develop the skills necessary to be an innovator in this growing and exciting new industry. Run an Ethereum client, create and transmit basic transactions, and program smart contracts Learn the essentials of public key cryptography, hashes, and digital signatures Understand how "wallets" hold digital keys that control funds and smart contracts Interact with Ethereum clients programmatically using JavaScript libraries and Remote Procedure Call interfaces Learn security best practices, design patterns, and anti-patterns with real-world examples Create tokens that represent assets, shares, votes, or access control rights Build decentralized applications using multiple peer-to-peer (P2P) components

Ready to dive into smart contract development for the blockchain? With this practical guide, experienced engineers and beginners alike will quickly learn the entire process for building smart contracts for Ethereum—the open source blockchain-based distributed computing platform. You ’ llget up to speed with the fundamentals and quickly move into builder mode. Kevin Solorio, Randall Kanna, and Dave Hoover show you how to create and test your own smart contract, create a frontend for users to interact with, and more. It ’ s the perfect resource for people who want to break into the smart contract field but don ’ t know where to start. In four parts, this book helps you: Explore smart contract fundamentals, including the Ethereum protocol, Solidity programming language, and the Ethereum Virtual Machine Dive into smart contract development using Solidity and gain experience with Truffle framework tools for deploying and testing your contracts Use Web3 to connect your smart contracts to an applicationso users can easily interact with the blockchain Examine smart contract security along with free online resources for smart contract security auditing

While many books explain the 'how' of Bitcoin, The Internet of Money series delves into the 'why' of Bitcoin. Following the world-wide success of Volume One and Volume Two, this third installment contains 12 of his most inspiring and thought-provoking talks over the past two years, including: Universal Access to Basic FinanceMeasuring Success: Price or PrincipleEscaping the Global Banking CartelLibre Not LibraUnstoppable Code: The Difference Between Can't and Won'tAround the world, governments and corporations are increasingly pursuing a reconstruction of money as a system-of-control and surveillance machine. Despite the emergence of an interconnected global society and economy through the decades-long expansion of the internet, the trajectory of these bureaucratic policies foreshadows dire consequences for financial inclusion and independence.Andreas contextualizes the significance of Bitcoin and open blockchains amid these socio-political and economic shifts: What if money could be created without an authority? Are corporate coins the first step towards techno neo-feudalism? Is the real "darknet" run by state intelligence agencies? What if everyone could have a Swiss bank in their pocket? Can we build digital communities resistant to gentrification?In 2013, Andreas M. Antonopoulos started publicly speaking about Bitcoin and quickly became one of the world's most sought-after speakers in the industry. He has delivered dozens of unique TED-style talks in venues ranging from the Henry Ford Museum to booked-out meetups in the Czech Republic and Argentina.In 2014, Antonopoulos authored the groundbreaking book, Mastering Bitcoin (O'Reilly Media), widely considered to be the best technical guide ever written about the technology. On 7 September 2016, Andreas launched his second book, The Internet of Money Volume One, on The Joe Rogan Experience podcast (the interview has since been viewed more than 300,000 times).The Internet of Money offered something that was desperately needed: an explanation of the philosophy, economics, politics, and poetics behind this technology.Make this book part of your collection and see why the internet of money will continue to transform the world and the internet itself

"Mastering Monero - The future of private transactions" is the newest resource to help you learn everything that you want to know about the cryptocurrency Monero. The book, available in electronic and physical form, provides the knowledge you need to participate in this exciting grassroots, open-source, decentralized, community-driven privacy project. Whether you are a novice or highly experienced, this book will teach you how to start using and contributing to Monero. The resource introduces readers to the cryptocurrency world and then explains how Monero works, what technologies it uses, and how you can get started in this fantastic world! For technical people, there are some chapters that provide in-depth understanding of the Monero ecosystem. The Monero cryptocurrency is designed to address and avoid practical troubles that arise from using coins that do not protect your sensitive financial information. Cryptocurrencies have revolutionized the financial landscape by allowing anybody with an internet connection to instantly access secure, robust, censorship-free systems for receiving, storing, and sending funds. This paradigm shift was enabled by blockchain technology, by which thousands of participants store matching copies of a “ public ledger ” . While this brilliant approach overcomes many economic hurdles, it also gives rise to a few severe downsides. Marketing corporations, snooping governments, and curious family members can analyze the public ledger to monitor your savings or study your activities. Monero mitigates these issues with a suite of advanced privacy technologies that allow you to have the best of all worlds! Instead of a public ledger, Monero has a shared private ledger that allows you to reap the benefits of a blockchain-based cryptocurrency, while protecting your sensitive business from prying eyes. This book contains everything you need to know to start using Monero in your business or day-to-day life. What are you waiting for? Get your copy of Mastering Monero now!

Discover the advanced features of Solidity that will help you write high-quality code and develop secure smart contracts with the latest ERC standards Key Features Delve into Solidity and understand control structures, function calls, and variable scopes Explore tools for developing, testing, and debugging your blockchain applications Learn advanced design patterns and best practices for writing secure smart contracts Book Description Solidity is among the most popular and contract-oriented programming languages used for writing decentralized applications (DApps) on Ethereum blockchain. If you ’ re looking to perfect your skills in writing professional-grade smart contracts using Solidity, this book can help. You will get started with a detailed introduction to blockchain, smart contracts, and Ethereum, while also gaining useful insights into the Solidity programming language. A dedicated section will then take you through the different Ethereum Request for Comments (ERC) standards, including ERC-20, ERC-223, and ERC-721, and demonstrate how you can choose among these standards while writing smart contracts. As you approach later chapters, you will cover the different smart contracts available for use in libraries such as OpenZeppelin. You ’ ll also learn to use different open source tools to test, review and improve the quality of your code and make it production-ready. Toward the end of this book, you ’ ll get to grips with techniques such as adding security to smart contracts, and gain insights into various security considerations. By the end of this book, you will have the skills you need to write secure, production-ready smart contracts in Solidity from scratch for decentralized applications on Ethereum blockchain. What you will learn Test and debug smart contracts with Truffle,

Ganache, Remix, and MetaMask Gain insights into maintaining code quality with different tools Get up to speed with ERC standards such as ERC-20 and ERC-721 Become adept at using design patterns while writing smart contracts Use MultiSignature (MultiSig) wallets and improve the security of contracts Use Oracle services to fetch information from outside the blockchain Who this book is for This book is for developers and data scientists who want to learn Ethereum, blockchain, and Solidity to write smart contracts and develop production-ready code. Basic knowledge of Solidity is assumed.

Learn the most powerful and primary programming language for writing smart contracts and find out how to write, deploy, and test smart contracts in Ethereum. Key Features Get you up and running with Solidity Programming language Build Ethereum Smart Contracts with Solidity as your scripting language Learn to test and deploy the smart contract to your private Blockchain Book Description Solidity is a contract-oriented language whose syntax is highly influenced by JavaScript, and is designed to compile code for the Ethereum Virtual Machine. Solidity Programming Essentials will be your guide to understanding Solidity programming to build smart contracts for Ethereum and blockchain from ground-up. We begin with a brief run-through of blockchain, Ethereum, and their most important concepts or components. You will learn how to install all the necessary tools to write, test, and debug Solidity contracts on Ethereum. Then, you will explore the layout of a Solidity source file and work with the different data types. The next set of recipes will help you work with operators, control structures, and data structures while building your smart contracts. We take you through function calls, return types, function modifers, and recipes in object-oriented programming with Solidity. Learn all you can on event logging and exception handling, as well as testing and debugging smart contracts. By the end of this book, you will be able to write, deploy, and test smart contracts in Ethereum. This book will bring forth the essence of writing contracts using Solidity and also help you develop Solidity skills in no time. What you will learn Learn the basics and foundational concepts of Solidity and Ethereum Explore the Solidity language and its uniqueness in depth Create new accounts and submit transactions to blockchain Get to know the complete language in detail to write smart contracts Learn about major tools to develop and deploy smart contracts Write defensive code using exception handling and error checking Understand Truffle basics and the debugging process Who this book is for This book is for anyone who would like to get started with Solidity Programming for developing an Ethereum smart contract. No prior knowledge of EVM is required.

Take advantage of Bitcoin ' s underlying technology, the blockchain, to build massively scalable, decentralized applications known as dapps. In this practical guide, author Siraj Raval explains why dapps will become more widely used—and profitable—than today ' s most popular web apps. You ' ll learn how the blockchain ' s cryptographically stored ledger, scarce-asset model, and peer-to-peer (P2P) technology provide a more flexible, better-incentivized structure than current software models. Once you understand the theory behind dapps and what a thriving dapp ecosystem looks like, Raval shows you how to use existing tools to create a working dapp. You ' ll then take a deep dive into the OpenBazaar decentralized market, and examine two case studies of successful dapps currently in use. Learn advances in distributed-system technology that make distributed data, wealth, identity, computing, and bandwidth possible Build a Twitter clone with the Go language, distributed architecture, decentralized messaging app, and peer-to-peer data store Learn about OpenBazaar ' s decentralized market and its structure for supporting transactions Explore Lighthouse, a decentralized crowdfunding project that rivals sites such as Kickstarter and IndieGogo Take an in-depth look at La ' Zooz, a P2P ridesharing app that transmits data directly between riders and drivers