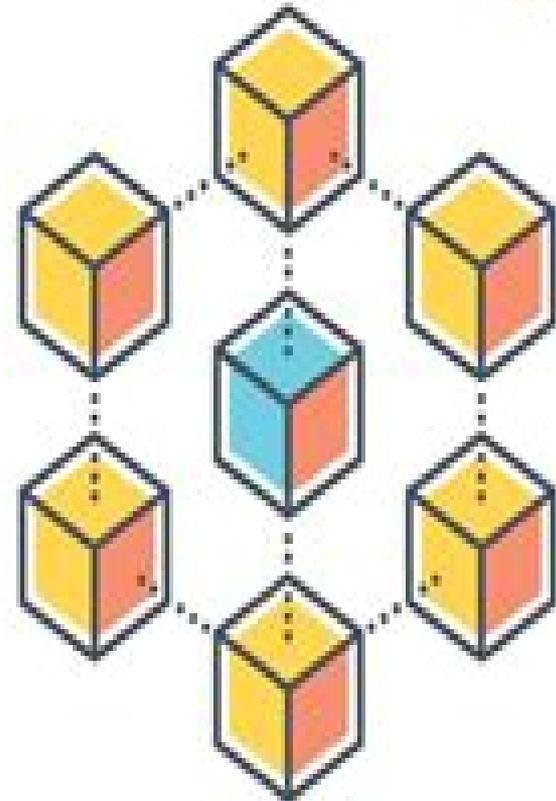# Blockchain

Development Guide: From Concept to Deployment

[Blockchain Development Guide For Startups 64 1184 Blockchain Development](#)

Brenn Hill,Samanyu Chopra,Paul Valencourt,Narayan Prusty

Blockchain Development Guide For Startups 64 1184 Blockchain Development:

Beginning Blockchain Bikramaditya Singhal,Gautam Dhameja,Priyansu Sekhar Panda,2018-07-06 Understand the nuts and bolts of Blockchain its different flavors with simple use cases and cryptographic fundamentals You will also learn some design considerations that can help you build custom solutions Beginning Blockchain is a beginner s guide to understanding the core concepts of Blockchain from a technical perspective By learning the design constructs of different types of Blockchain you will get a better understanding of building the best solution for specific use cases The book covers the technical aspects of Blockchain technologies cryptography cryptocurrencies and distributed consensus mechanisms You will learn how these systems work and how to engineer them to design next gen business solutions What You ll Learn Get a detailed look at how cryptocurrencies work Understand the core technical components of Blockchain Build a secured Blockchain solution from cryptographic primitives Discover how to use different Blockchain platforms and their suitable use cases Know the current development status scope limitations and future of Blockchain Who This Book Is For Software developers and architects computer science graduates entrepreneurs and anyone wishing to dive deeper into blockchain fundamentals A basic understanding of computer science data structure and algorithms is helpful   *The Blockchain Developer* Elad Elrom,2019-07-23 Become a Blockchain developer and design build publish test maintain and secure scalable decentralized Blockchain projects using Bitcoin Ethereum NEO EOS and Hyperledger This book helps you understand Blockchain beyond development and crypto to better harness its power and capability You will learn tips to start your own project and best practices for testing security and even compliance Immerse yourself in this technology and review key topics such as cryptoeconomics coding your own Blockchain P2P network different consensus mechanisms decentralized ledger mining wallets blocks and transactions Additionally this book provides you with hands on practical tools and examples for creating smart contracts and dApps for different blockchains such as Ethereum NEO EOS and Hyperledger Aided by practical real world coding examples you ll see how to build dApps with Angular utilizing typescript from start to finish connect to the blockchain network locally on a test network and publish on the production mainnet environment Don t be left out of the next technology revolution become a Blockchain developer using The Blockchain Developer today What You ll Learn Explore the Blockchain ecosystem is and the different consensus mechanisms Create miners wallets transactions distributed networks and DApps Review the main features of Bitcoin Ethereum NEO and EOS and Hyperledger are Interact with popular node clients as well as implementing your own Blockchain Publish and test your projects for security and scalability Who This Book Is For Developers architects and engineers who are interested in learning about Blockchain or implementing Blockchain into a new greenfield project or integrating Blockchain into a brownfield project Technical entrepreneurs technical investors or even executives who want to better understand Blockchain technology and its potential   *Blockchain Quick Start Guide* Xun (Brian) Wu,Weimin Sun,2018-12-27 Learn quick and effective techniques to get up and

running with building blockchain including Ethereum and Hyperledger Fabric Key FeaturesUnderstand the key concepts of decentralized applications and consensus algorithmsLearn key concepts of Ethereum and Solidity programmingPractical guide to get started with build efficient Blockchain applications with Ethereum and HyperledgerBook Description Blockchain is a technology that powers the development of decentralized applications This technology allows the construction of a network with no single control that enables participants to make contributions to and receive benefits from the network directly This book will give you a thorough overview of blockchain and explain how a blockchain works You will begin by going through various blockchain consensus mechanisms and cryptographic hash functions You will then learn the fundamentals of programming in Solidity the defacto language for developing decentralize applications in Ethereum After that you will set up an Ethereum development environment and develop package build and test campaign decentralized applications The book also shows you how to set up Hyperledger composer tools analyze business scenarios design business models and write a chain code Finally you will get a glimpse of how blockchain is actually used in different real world domains By the end of this guide you will be comfortable working with basic blockchain frameworks and develop secure decentralized applications in a hassle free manner What you will learnUnderstand how blockchain hashing worksWrite and test a smart contract using SolidityDevelop and test a decentralized applicationBuild and test your application using Hyperledger FabricImplement business network using Hyperledger ComposerTest and interact with business network applicationsWho this book is for The book is for developers analysts or anyone looking to learn about Blockchain in a quick and easy manner **Blockchain Developer's Guide** Brenn Hill,Samanyu Chopra,Paul Valencourt,Narayan Prusty,2018-12-21 Build real world projects like a smart contract deployment platform betting apps wallet services and much more using blockchain Key FeaturesApply blockchain principles and features for making your life and business betterUnderstand Ethereum for smart contracts and DApp deploymentTackle current and future challenges and problems relating to blockchainBook Description Blockchain applications provide a single shared ledger to eliminate trust issues involving multiple stakeholders It is the main technical innovation of Bitcoin where it serves as the public ledger for Bitcoin transactions Blockchain Developer s Guide takes you through the electrifying world of blockchain technology It begins with the basic design of a blockchain and elaborates concepts such as Initial Coin Offerings ICOs tokens smart contracts and other related terminologies You will then explore the components of Ethereum such as Ether tokens transactions and smart contracts that you need to build simple DApps Blockchain Developer s Guide also explains why you must specifically use Solidity for Ethereum based projects and lets you explore different blockchains with easy to follow examples You will learn a wide range of concepts beginning with cryptography in cryptocurrencies and including ether security mining and smart contracts You will learn how to use web sockets and various API services for Ethereum By the end of this Learning Path you will be able to build efficient decentralized applications This Learning Path includes content from the following Packt

products Blockchain Quick Reference by Brenn Hill Samanyu Chopra Paul ValencourtBuilding Blockchain Projects by Narayan PrustyWhat you will learnUnderstand how various components of the blockchain architecture workGet familiar with cryptography and the mechanics behind blockchainApply consensus protocol to determine the business sustainabilityUnderstand what ICOs and crypto mining are and how they workWho this book is for Blockchain Developer s Guide is for you if you want to get to grips with the blockchain technology and develop your own distributed applications It is also designed for those who want to polish their existing knowledge regarding the various pillars of the blockchain ecosystem Prior exposure to an object oriented programming language such as JavaScript is needed   **Learn Blockchain Development** Project Station,2025-06-09 Learn Blockchain Development is an inspiring journey of a young tech enthusiast named Zayan who dares to dream beyond the conventional Coming from a modest background in Dhaka he sets out to build a decentralized future through blockchain This isn t just a story about coding and technology it s about passion vision and the entrepreneurial fire that drives one to rise from zero and make an impact on the global stage Through six detailed chapters readers witness Zayan s transformation from a self learner struggling to understand the basics of programming to a renowned blockchain developer leading a startup that redefines financial transparency Each chapter blends real world strategies emotional struggles and visionary goals offering both technical knowledge and motivational strength to readers who dream of becoming blockchain entrepreneurs   **Coding for Beginners: Blockchain Development** Elliot Davis,2021-12-22 Take your first step into the Blockchain Revolution What exactly is a blockchain and how does it work Why does everyone from technical experts to business tycoons believe bitcoin and Web3 to be a ground breaking combination that will have a bigger impact on society than the internet How are decentralized applications being implemented as the new standard A lot has been written about bitcoin ethereum and blockchains However most of this information may be hard to grasp for the untrained This book is an easy to understand introduction to this new money and the ingenious technology that underlies it Elliot Davis answers these questions in this deft intriguing and easy to digest introduction to one of the most significant inventions of recent times revealing how cryptocurrencies such as bitcoin are just one example of dozens of transformative applications made possible by this relatively new technology He simplifies blockchain s most significant components by interpreting the complexities into digestible information intended for readers who are unfamiliar with the technology This book bridges the gap between exclusively technical blockchain publications and purely business focused blockchain books It accomplishes this by describing both the technical elements that comprise the blockchain and their function in business relevant applications essential breaking down the theory and application behind Blockchain cryptocurrencies and NFT s What You Will Discover What exactly are Bitcoin and Ethereum What is Blockchain technology How to create and publish your own cryptocurrencies How to create and publish your own NFT s How can you become a Blockchain Developer Why is there so much buzz about blockchain technology and its potential What are the reasons for

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blockchain powered apps Inside this book you ll learn The fundamentals of blockchain and how decentralized systems work How to set up your development environment and start coding smart contracts Step by step creation of decentralized apps dApps from the ground up Core concepts like consensus mining and token standards explained clearly Real world use cases showing how blockchain is transforming industries Hands on projects to solidify your learning and boost your confidence Whether you re a programming student a tech enthusiast or a developer aiming to expand into Web3 this guide is designed to give you the foundation to start building confidently in the blockchain space Don t just learn about blockchain start creating with it   *Blockchain* Tobias Fertig,Andreas Schütz,2024-09-25 Demystify the blockchain and learn how to use it with this practical guide Start from the ground up What is Ethereum What is Solidity And how are they used to create smart contracts Then see how to implement your own blockchain including configuring a peer to peer network managing miner accounts and more Follow step by step instructions and detailed code examples to develop smart contracts and dApps Work with cutting edge technologies such as Bitcoin Uniswap NFTs Ripple IOTA and more Welcome to the world of blockchain In this book you ll learn about a Blockchain Basics You ve heard the hype around Bitcoin NFTs and crypto mining But how does the underlying blockchain technology work Understand the fundamentals of the distributed ledger and learn how to create and manage your own blockchain b Application Development Master smart contracts from programming with Solidity to testing debugging deployment and beyond Develop decentralized applications dApps and expand them into a decentralized autonomous organization DAO by implementing a frontend with Ether js c Tips from the Experts Follow guidance from experienced blockchain programmers Use commented code examples as templates for your projects to get started building your own blockchain and smart contracts in the real world Highlights include 1 Blockchain basics and creation 2 Smart contracts and dApps 3 Development with Solidity 4 Testing debugging and security 5 Web APIs 6 Peer to peer frameworks 7 Accounts and balances 8 Transaction and block verification 9 Gas optimization 10 Decentralized finance DeFi 11 Non fungible tokens NFTs 12 Yul contracts   Blockchain for Business Yannis Kalfoglou,2021-07-19 This book sets out to explain blockchain for the non technical expert to decipher the dense technicalities that dominate the field and to present the opportunities for busy professionals using practical applications and case studies Presented in a clear and structured way and with documented real world cases the book is a practical reference guide that can be used across different industries It offers both a constructive and critical review of the pain points blockchain is facing today illustrates the pitfalls as well as the opportunities for business and describes the steps towards overcoming them It also aims to provide a unique view of both the intersection and synergy of blockchain with other emerging technologies and the wider digital ecosystem as we see increasingly that blockchain alone won t be able to deliver business solutions Most important the book identifies trends and a path for the future of blockchain and its impact on society as a whole The book is written for business audiences across all sectors It is not a technical guide to blockchain but it enables businesspeople to be better informed and prepared to plan

ahead and develop strategies using blockchain   **Building Blockchain Apps** Michael Juntao Yuan,2019-11-26 A Developer s Guide to Blockchain Programming Fundamentals Blockchain development is entering a period of explosive growth as real applications gain traction throughout multiple industries and cryptocurrencies earn greater acceptance throughout the financial sector Blockchain represents one of the most promising opportunities for developers to advance and succeed Building Blockchain Apps is an accessible guide to today s most advanced and robust blockchain programming models and architectures Building on his pioneering experience Michael Juntao Yuan covers a wide range of blockchain application development paradigms The book starts with a concise introduction to blockchain and smart contract technologies It then guides you through application development on Ethereum compatible smart contract platforms Ethereum is the largest and most robust blockchain ecosystem in the world Coverage includes Ethereum topics such as tools application frameworks internal data structures external data interfaces and future roadmap An introduction to new blockchain data protocol based on ElasticSearch which provides insights into the current state of smart contracts and enables new application designs How to build an application specific smart contract protocol by modifying and customizing the open source Ethereum Virtual Machine and its programming language tools How to extend and support language features that are most suitable for particular kinds of smart contracts e g smart contracts for e commerce marketplaces with the open source Lity project How to customize and change the blockchain consensus layer beneath the application layer via the popular Tendermint and Cosmos SDK frameworks A survey of cryptocurrency and financial topics from the developers point of view providing an analytical framework for valuating cryptocurrencies and explaining the roles of crypto exchanges Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

   Blockchain Development with Hyperledger Salman A. Baset,Luc Desrosiers,Nitin Gaur,Petr Novotny,Anthony O'Dowd,Venkatraman Ramakrishna,Weimin Sun,Xun (Brian) Wu,2019-03-26 Learn quick and effective techniques for developing blockchain based distributed ledgers with ease Key FeaturesDiscover why blockchain is a game changer in the technology landscapeSet up blockchain networks using Hyperledger FabricWrite smart contracts at speed with Hyperledger ComposerBook Description Blockchain and Hyperledger are open source technologies that power the development of decentralized applications This Learning Path is your helpful reference for exploring and building blockchain networks using Ethereum Hyperledger Fabric and Hyperledger Composer Blockchain Development with Hyperledger will start off by giving you an overview of blockchain and demonstrating how you can set up an Ethereum development environment for developing packaging building and testing campaign decentralized applications You ll then explore the de facto language Solidity which you can use to develop decentralized applications in Ethereum Following this you ll be able to configure Hyperledger Fabric and use it to build private blockchain networks and applications that connect to them Toward the later chapters you ll learn how to design and launch a network and even implement smart contracts in chain code By the end of this Learning Path you

ll be able to build and deploy your own decentralized applications by addressing the key pain points encountered in the blockchain life cycle This Learning Path includes content from the following Packt products Blockchain Quick Start Guide by Xun Brian Wu and Weimin SunHands On Blockchain with Hyperledger by Nitin Gaur et al What you will learnUnderstand why decentralized applications are necessaryDevelop and test a decentralized application with Hyperledger Fabric and Hyperledger ComposerWrite and test a smart contract using SolidityDesign transaction models and chain code with GolangDeploy the Composer REpresentational State Transfer REST Gateway to access Composer transactionsMaintain monitor and manage your blockchain solutionsWho this book is for This Learning Path is designed for blockchain developers who want to build decentralized applications and smart contracts from scratch using Hyperledger Basic familiarity with or exposure to any programming language will be useful to get started with this course   **Blockchain** Charles Jensen,2017-08-20 All blockchain titles in one book Book 1 Blockchain is an often misunderstood technology It has been a hype a thing in the past and many people are talking about it But what is it How do you use it What consequences does it have All of these questions and more will be answered in this book The expert author wrote among others How blockchain is different from bitcoin and similar to it The domino effect blockchain causes on banks institutions corporations and governments Contracts apps and financing strategies to utilize blockchain to your advantage Elaborate and controversial thoughts about the development and future of blockchain Legal implications and economical effects of blockchain Barriers and challenges as well as simple ways to overcome those Book 2 The more sophisticated specifics of blockchain programming will be discussed in this book You will read about things you might not have encountered yet and expand your knowledge about this popular way of using software and ethereum to achieve monetary and accuracy purposes You will read among others What ethereum is and how to use it Login systems that use ethereum Several ways of understanding how bitcoin is related to it all and the concept behind it All about smart contracts and storing data Java coding that involves blockchain technology Facts and thoughts about the Decentralized Autonomous Organization DAO And much more Book 3 You ve learned the specifics of blockchain technology You ve become the ultimate expert geek on this subject You ve read my other books and you know how it all works So now what Well now it s time for you to apply these things in real life That s why I added this book to the series to show you for instance The recent blockchain developments and how to stay up to date What ethereum is and how to use it The shifts in the industry and the kinds of employers who need people like you How blockchain technology influences the cyber security systems music industry and gaming industry Threats to the system and the programming methods All about investing supply chains and more Book 4 A different angle a different twist to the elaborate uses of blockchain technology you should know more about Added to the previous books I ve written I felt inspired to increase your expertise in this particular area and share my knowledge with the world In this guide you can learn about Ethereum and the connection to the Decentralized Consensus Network The basics of DAPP Javascript API specifics related to

blockchain technology Methods to contract storage Alethzero and other software specifics Coding typing and data values you need to understand Transactions pulling data and structuring **Blockchain** Charles Jensen,2017-08-20 All blockchain books combined in a single bundle Four books four times the value Book 1 Blockchain is an often misunderstood technology It has been a hype a thing in the past and many people are talking about it But what is it How do you use it What consequences does it have All of these questions and more will be answered in this book The expert author wrote among others How blockchain is different from bitcoin and similar to it The domino effect blockchain causes on banks institutions corporations and governments Contracts apps and financing strategies to utilize blockchain to your advantage Elaborate and controversial thoughts about the development and future of blockchain Legal implications and economical effects of blockchain Barriers and challenges as well as simple ways to overcome those Book 2 The more sophisticated specifics of blockchain programming will be discussed in this book You will read about things you might not have encountered yet and expand your knowledge about this popular way of using software and ethereum to achieve monetary and accuracy purposes You will read among others What ethereum is and how to use it Login systems that use ethereum Several ways of understanding how bitcoin is related to it all and the concept behind it All about smart contracts and storing data Java coding that involves blockchain technology Facts and thoughts about the Decentralized Autonomous Organization DAO And much more Book 3 You ve learned the specifics of blockchain technology You ve become the ultimate expert geek on this subject You ve read my other books and you know how it all works So now what Well now it s time for you to apply these things in real life That s why I added this book to the series to show you for instance The recent blockchain developments and how to stay up to date What ethereum is and how to use it The shifts in the industry and the kinds of employers who need people like you How blockchain technology influences the cyber security systems music industry and gaming industry Threats to the system and the programming methods All about investing supply chains and more Book 4 A different angle a different twist to the elaborate uses of blockchain technology you should know more about Added to the previous books I ve written I felt inspired to increase your expertise in this particular area and share my knowledge with the world In this guide you can learn about Ethereum and the connection to the Decentralized Consensus Network The basics of DAPP Javascript API specifics related to blockchain technology Methods to contract storage Alethzero and other software specifics Coding typing and data values you need to understand Transactions pulling data and structuring The Business Blockchain William Mougayar,2016-04-26 The definitive pioneering blueprint covering the what why and how of the blockchain Blockchains are new technology layers that rewire the Internet and threaten to side step older legacy constructs and centrally served businesses At its core a blockchain injects trust into the network cutting off some intermediaries from serving that function and creatively disrupting how they operate Metaphorically blockchains are the ultimate non stop computers Once launched they never go down and offer an incredible amount of resiliency making them dependable and attractive for running a new

generation of decentralized services and software applications The Business Blockchain charts new territory in advancing our understanding of the blockchain by unpacking its elements like no other before William Mougayar anticipates a future that consists of thousands if not millions of blockchains that will enable not only frictionless value exchange but also a new flow of value redefining roles relationships power and governance In this book Mougayar makes two other strategic assertions First the blockchain has polymorphic characteristics its application will result in a multiplicity of effects Second we shouldn t ask ourselves what problems the blockchain solves because that gives us a narrow view on its potential Rather we should imagine new opportunities and tackle even more ambitious problems that cross organizational regulatory and mental boundaries Drawing on 34 years of technology industry experience as an executive analyst consultant entrepreneur startup mentor author blogger educator thought leader and investor William Mougayar describes a future that is influenced by fundamental shifts brought by blockchain technology as the catalyst for change William Mougayar has been described as the most sophisticated blockchain business thinker He is a blockchain industry insider whose work has already shaped and influenced the understanding of blockchain for people around the world via his generous blogging and rigorous research insights He is a direct participant in the crypto technology market working alongside startups entrepreneurs pioneers leaders innovators creators enterprise executives and practitioners in addition to being an investor advisor and board member in some of the leading organizations in this space such as the Ethereum Foundation OpenBazaar and Coin Center Just as the Internet created new possibilities that we didn t foresee in its early years the blockchain will give rise to new business models and ideas that may still be invisible Following an engaging Foreword by Vitalik Buterin this book is organized along these 7 chapters 1 What is the Blockchain 2 How Blockchain Trust Infiltrates 3 Obstacles Challenges Mental Blocks 4 Blockchain in Financial Services 5 Lighthouse Industries New Intermediaries 6 Implementing Blockchain Technology 7 Decentralization as the Way Forward The Business Blockchain is an invitation for technologists to better understand the business potential of the blockchain and for business minded people to grasp the many facets of blockchain technology This book teaches you how to think about the blockchain **Blockchain** Paul Laurence,2017-07-09 Blockchain Sale price You will save 66% with this offer Please hurry up Step By Step Guide to Understanding and Implementing Blockchain Technology Blockchain networks are a radical departure from the way most companies and entities currently structure their systems Rather than having a single point of control the network uses a decentralized distributed ledger system the ramifications of which could radically alter a variety of different industries If you ve been considering how blockchains could function in your company now is a great time to start gathering information While there are quite a few blockchain specific start ups larger corporations are only beginning to see the value of this technology which could give smaller operations a chance to get in on the cutting edge This book will cover the following topics Understand the Basics of Blockchain Technology The benefits of blockchain networks Potential use cases from a variety of industries The steps to

implementing blockchains in your own company Potential problems with blockchain implementation and how to overcome them If the blockchain is a concept you re having trouble wrapping your head around you re not alone The use and significance of this style of peer to peer interaction is just starting to gain wide spread attention The information in this book will help you get in early on this potentially world changing innovation Download your copy of Blockchain by scrolling up and clicking Buy Now With 1 Click button Tags Blockchain Blockchain Technology Blockchain Programming Blockchain Development Fintech Financial Technology Smart Contracts Challenges in the Use of Blockchain Bitcoin Step By Step Guide For Beginners Tips and tricks Leveraging Blockchain Programming disseminated database Sidechains parallel blockchains Gyft cryptography currency business exchange transaction finance virtual payments protocol litecoin smart concept

Architecting Enterprise Blockchain Solutions Joseph Holbrook,2020-01-20 Demystify architecting complex blockchain applications in enterprise environments Architecting Enterprise Blockchain Solutions helps engineers and IT administrators understand how to architect complex blockchain applications in enterprise environments The book takes a deep dive into the intricacies of supporting and securing blockchain technology creating and implementing decentralized applications and incorporating blockchain into an existing enterprise IT infrastructure Blockchain is a technology that is experiencing massive growth in many facets of business and the enterprise Most books around blockchain primarily deal with how blockchains are related to cryptocurrency or focus on pure blockchain development This book teaches what blockchain technology is and offers insights into its current and future uses in high performance networks and complex ecosystems Provides a practical hands on approach Demonstrates the power and flexibility of enterprise blockchains such as Hyperledger and R3 Corda Explores how blockchain can be used to solve complex IT support and infrastructure problems Offers numerous hands on examples and diagrams Get ready to learn how to harness the power and flexibility of enterprise blockchains   Blockchain for Beginners Lammie Verden,2025-04-05 Unlock the world of blockchain with Blockchain for Beginners A Simple Introduction to Blockchain Technology This easy to follow guide is perfect for anyone who wants to understand the foundational concepts of blockchain its applications in cryptocurrency and how to get started with blockchain development Whether you re a complete beginner or someone curious about how blockchain can revolutionize industries this book provides a clear and accessible introduction to the technology that s changing the way we think about security finance and decentralized applications Blockchain is the backbone of cryptocurrencies like Bitcoin and Ethereum but its potential stretches far beyond digital currencies In this book you ll learn how blockchain works how it s used to secure transactions and how to begin developing decentralized applications dApps With practical examples and simple explanations this guide will help you grasp the basics and start exploring blockchain technology with confidence Inside you ll learn The fundamentals of blockchain technology and how it works How blockchain ensures security and transparency through decentralization and consensus mechanisms The role of cryptocurrencies like Bitcoin and Ethereum in the blockchain ecosystem The key

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exploration this book walks you through the evolution of blockchain highlighting how it enables trustless transactions disrupts centralized control and empowers individuals Whether you re just starting out or seeking to deepen your understanding the chapters offer insight into everything from Bitcoin s rise to the development of smart contracts and decentralized applications Inside This Book You ll Discover The Origins of Blockchain and how it evolved from a concept to a global movement The inner workings of Blocks Chains and Consensus Mechanisms Why Cryptography is the backbone of blockchain security The rise of Smart Contracts through Ethereum and how they automate trust The disruptive power of DeFi and how it s reshaping financial systems The expanding use of NFTs and digital ownership in virtual spaces The role of Blockchain in Web3 and the emerging Metaverse This book delivers more than just theory it presents the practical implications and future possibilities that come with decentralized innovation From navigating regulatory environments to building your first decentralized application you ll walk away empowered to take part in the blockchain driven future Scroll Up and Grab Your Copy Today

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