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A Pragmatic Approach Packt Publishing Ltd
Develop real-time practical DApps using Ethereum and JavaScript About This Book Create powerful, end-to-end applications for Blockchain using Ethereum Write your first program using the Solidity programming language Change the way you think and design your applications by using the all new database-Blockchain Who This Book Is For This book is for JavaScript developers who now want to create tamper-proof data (and transaction) applications using Blockchain and Ethereum. Those who are interested in cryptocurrencies and the logic and database empowering it will find this book extremely useful. What You Will Learn Walk through the basics of the Blockchain technology Implement Blockchain's technology and its features, and see what can be achieved using them Build DApps using Solidity and Web3.js Understand the geth command and cryptography Create Ethereum wallets Explore consortium blockchain In Detail Blockchain is a decentralized ledger that maintains a continuously growing list of data records that are secured from tampering and revision. Every user is allowed to connect to the network, send new transactions to it, verify transactions, and create new blocks, making it permission-less. This book will teach you what Blockchain is,

how it maintains data integrity, and how to create real-world Blockchain projects using Ethereum. With interesting real-world projects, you will learn how to write smart contracts which run exactly as programmed without any chance of fraud, censorship, or third-party interference, and build end-to-end applications for Blockchain. You will learn about concepts such as cryptography in cryptocurrencies, ether security, mining, smart contracts, solidity, and more. You will also learn about web sockets, various API services for Ethereum, and much more. The blockchain is the main technical innovation of bitcoin, where it serves as the public ledger for bitcoin transactions. Style and approach This is a project-based guide that not only gets you up and running with Blockchain, but also lets you create intuitive real-world applications that will make you an independent Blockchain developer. Handbook of Research on Disruptive Innovation and Digital Transformation in Asia Apress A radical shift in perspective to transform your organization to become more innovative The Design Thinking Playbook is an actionable guide to the future of business. By stepping back and questioning the current mindset, the faults of the status quo stand out in stark relief—and this guide gives you the tools and frameworks you need to kick off a digital transformation. Design Thinking is about approaching things differently with a strong user orientation and fast iterations with multidisciplinary teams to solve wicked problems. It is equally applicable to (re-)design products, services, processes, business models, and ecosystems. It inspires radical innovation as a matter of course, and ignites capabilities beyond mere potential. Unmatched as a source of competitive advantage, Design Thinking is

the driving force behind those who will lead industries through transformations and evolutions. This book describes how Design Thinking is applied across a variety of industries, enriched with other proven approaches as well as the necessary tools, and the knowledge to use them effectively. Packed with solutions for common challenges including digital transformation, this practical, highly visual discussion shows you how Design Thinking fits into agile methods within management, innovation, and startups. Explore the digitized future using new design criteria to create real value for the user Foster radical innovation through an inspiring framework for action Gather the right people to build highly-motivated teams Apply Design Thinking, Systems Thinking, Big Data Analytics, and Lean Start-up using new tools and a fresh new perspective Create Minimum Viable Ecosystems (MVEs) for digital processes and services which becomes for example essential in building Blockchain applications Practical frameworks, real-world solutions, and radical innovation wrapped in a whole new outlook give you the power to mindfully lead to new heights. From systems and operations to people, projects, culture, digitalization, and beyond, this invaluable mind shift paves the way for organizations—and individuals—to do great things. When you 're ready to give your organization a big step forward, The Design Thinking Playbook is your practical guide to a more innovative future. *Secure Edge Computing* BPB Publications Blockchain technology continues to disrupt a wide variety of organizations, from small businesses to the Fortune 500. Today hundreds of blockchain networks are in production, including many built with Hyperledger Fabric. This practical guide shows developers how the latest version of this blockchain infrastructure provides an ideal foundation for developing enterprise blockchain applications or solutions. Authors Matt Zand, Xun Wu, and Mark Anthony Morris demonstrate how the versatile design of Hyperledger Fabric 2.0 satisfies a broad range of industry use cases. Developers with or without previous Hyperledger experience will discover why no other distributed ledger technology

framework enjoys such wide adoption by cloud service providers such as Amazon, Alibaba, IBM, Google, and Oracle. Walk through the architecture and components of Hyperledger Fabric 2.0 Migrate your current Hyperledger Fabric projects to version 2.0 Develop blockchain applications on the Hyperledger platform with Node.js Deploy and integrate Hyperledger on Amazon Managed Blockchain, IBM Cloud, and Oracle Cloud Develop blockchain applications with Hyperledger Aries, Avalon, Besu, and Grid Build end-to-end blockchain supply chain applications with Hyperledger

Building Blockchain Projects Springer Nature

The construction industry is amidst a digital transformation that is focused on addressing well-documented issues and calls for significant improvements and changes through increased productivity, whole-life value, client focus, reduction of waste, and being more sustainable. The key aspect to driving change and transformation is the education and upskilling of the required workforce towards developing the required capacities. Various approaches can be taken to embed digital construction within education and through collaborative efforts in order to drive change and facilitate improvements. The Handbook of Research on Driving Transformational Change in the Digital Built Environment focuses on current developments in practice and education towards facilitating transformation in the built environment. This book provides insight, from a practice perspective, in relation to the client's understanding, digitally enabled collaboration, interoperability and open standards, and maturity/capability. Covering topics that include digital transformation and construction, digitally enabled infrastructure, building information modelling, collaborative digital education, and the digital built environment, this book is an ideal reference source for engineers, professionals, and researchers in the field of digital transformation as well as doctoral scholars, doctoral researchers, professionals, and academicians.

Oracle Blockchain Quick Start Guide John Wiley & Sons

This book presents the outcomes of the Intelligent Communication Technologies and Virtual Mobile Networks Conference (ICICV 2019) held in Tirunelveli, India, on February 14 – 15, 2019. It presents the state of the art in the field, identifying emerging research topics and communication technologies and defining the future of intelligent communication approaches and virtual computing. In light of the tremendous growth ICT, it examines the rapid developments in virtual reality in communication technology and high-quality services in mobile networks, including the

integration of virtual mobile computing and communication technologies, which permits new technologies based on the resources and services of computational intelligence, big data analytics, Internet of Things (IoT), 5G technology, automation systems, sensor networks, augmented reality, data mining, and vehicular ad hoc networks with massive cloud-based backend. These services have a significant impact on all areas of daily life, like transportation, e-commerce, health care, secure communication, location detection, smart home, smart city, social networks and many more.

Blockchain Development with Hyperledger "O'Reilly Media, Inc."

The three-volume set LNCS 12681-12683 constitutes the proceedings of the 26th International Conference on Database Systems for Advanced Applications, DASFAA 2021, held in Taipei, Taiwan, in April 2021. The total of 156 papers presented in this three-volume set was carefully reviewed and selected from 490 submissions. The topic areas for the selected papers include information retrieval, search and recommendation techniques; RDF, knowledge graphs, semantic web, and knowledge management; and spatial, temporal, sequence, and streaming data management, while the dominant keywords are network, recommendation, graph, learning, and model. These topic areas and keywords shed the light on the direction where the research in DASFAA is moving towards. Due to the Corona pandemic this event was held virtually.

2019 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT) Packt Publishing Ltd Mastering Hyperledger Fabric. A one-stop solution to become Master in the Hyperledger Fabric Key Features Detailed Explanation of One way TLS and mutual TLS Detailed Explanation of docker sockets (docker.sock) Exposed functionalities of Fabric CLI's and SDK's Enterprise-level chaincode development A glimpse of Hyperledger Fabric 2.0 Advanced examples of Node and golang Fabric SDK Onboard new organization using Node.js SDK (No more CLI) CI/CD for chaincode (Install chaincode directly onto peers from GitHub using Node.js) Fabric setup explanation with Different real-time use cases Deployment of Hyperledger Fabric using docker swarm and Kubernetes Setup and configure caliper to check benchmarks Monitor consortium with Prometheus and grafana Monitor docker and docker swarm using swarmkit and logspout Logging consortium with ELK/EFK stack Some interesting open-source tools and some Bonus concepts Table of Contents Chapter1: Introduction to the Hyperledger Landscape Chapter2: The Disruptive Potential of TLS Chapter3: All about docker sockets Chapter4: Installation Guide Of Prerequisites Chapter5: All

about fabric CLI Chapter6: All about SDK's (golang and Node.js) Chapter7: Advanced Chaincode Development Chapter8: End to End fabric consortium with Solo consensus using docker with one use case Chapter9: End to End fabric Consortium with Kafka consensus using docker swarm with one use case Chapter10: End to End fabric Consortium with Raft consensus using Kubernetes with one use case Chapter11: Private Data Concepts, Consortium level ACL(Access Control Lists) and raft consensus mechanism Chapter12: Setup and Benchmark Blockchain Consortium Using Caliper Chapter13: Monitoring Consortium with Prometheus and grafana Chapter14: Logging Consortium with ELK Stack Chapter15: Glimpse of Hyperledger fabric 2.0 Chapter16: Some Interesting tools Who this Book is For This Book benefits Software Engineers who are ready to shift their focus to distributed technologies and Blockchain. This book provides a comprehensive view of Solution Architecture, so it will be easy for architects to architect their solution. CTO's around the world want to add hyperledger fabric to their technology stack. Managers to cope up with the latest trend. Faculty Professors in order to get industry insights. Even Engineering Students who want to be ready with the latest technologies. Book Description Mastering Hyperledger Fabric is a craving topic for all Hyperledger Fabric Developers around the world. Hyperledger Fabric is an open-source project that helps organizations create and maintain permissioned distributed Blockchain consortiums. This book is for readers who are looking for Hyperledger offerings to build end-to-end projects with growing complexity and functionalities. This book will be a one-stop solution for all developers who want to build blockchain consortiums using Hyperledger Fabric. Topics include TLS, Unix sockets, caliper(Benchmark tool), raft consensus, advanced chaincode development, key collision and MVCC, chaincode access controls, chaincode encryption, node.js SDK, golang SDK, docker daemon API, private data concepts, onboarding organizations using node.js SDK, deploy hyperledger fabric using Kubernetes, deploy hyperledger fabric using docker swarm, monitoring hyperledger fabric, monitoring Kubernetes, monitoring docker swarm, logging hyperledger fabric. After reading this book the reader will be able to set up Production grade hyperledger fabric consortium using raft consensus mechanisms with monitoring using Prometheus and grafana, even logging. This book explains so many key concepts of hyperledger fabric including 2.0 and written with three years of hyperledger fabric production experience. Security and Trust Management Springer Nature This book constitutes selected papers from the 16th European, Mediterranean, and Middle Eastern Conference, EMCIS 2019, held in Dubai, UAE, in October 2019. EMCIS is dedicated to the definition and establishment of Information Systems as a discipline of high impact for the methodical community and IS

professionals, focusing on approaches that facilitate the identification of innovative research of significant relevance to the IS discipline. The 48 full papers presented in this volume were carefully reviewed and selected from a total of 138 submissions. They were organized in topical sections named: Big Data and Analytics; Blockchain Technology and Applications; Cloud Computing; Digital Services and Social Media; e-Government; Enterprise Information Systems; Health-Care Information Systems; Information Systems Security and Information Privacy Protection; Innovative Research Projects; IT Governance; and Management and Organizational Issues in Information Systems. Applications, Techniques and Challenges Siddharth Jain

Whether you are a project manager looking to lead blockchain projects, a developer who would like to create blockchain-based applications, or a student with an interest, this book will provide you with the foundational understanding that you need. You have probably noticed that blockchains are growing in popularity. Governments are investigating Digital Currencies, supply chains are adopting Digital Ledgers, games makers and artists are developing NFTs (Non-Fungible Tokens), and new use-cases are emerging regularly. With such growth, many people will find themselves needing to understand how these technologies work. There will be new project teams, with technical leads managing blockchain projects and developers creating distributed applications. This book is great for them as it explains the concepts on which blockchain technologies are based, in simple terms. We will discuss and explain topics such as hashing, Merkle trees, nodes, mining, proof of work and proof of stake, consensus mechanisms encryption, vulnerabilities, and much more. The structures and principles described will be relevant for developers and managers alike, and will be demonstrated through relevant examples throughout the text. If you are looking to understand this exciting new technology, this is the book for you.

On the Move to Meaningful Internet Systems: OTM 2018 Workshops IGI Global
With new technologies constantly being created, implemented, and sold, it is a robust opportunity for companies to hop on board with the latest digital trends. With the business world undergoing rapid changes and advancements in current times, the transformation process has been rapid and the disruptions significant. This has created a culture of innovation and a plethora of available business opportunities, especially when focused on Central Asia, Southeast Asia, and East Asia. Along with these innovative technologies and new opportunities in the business world comes challenges and

trends within the Asian region that require more attention and advanced research to fully understand this digital transformation era and the resulting impacts, challenges, and solutions. The Handbook of Research on Disruptive Innovation and Digital Transformation in Asia addresses key topics for understanding business opportunities in Asia, covering a variety of challenges and nations in the Asian region from technological disruption and innovation to connectivity and economic corridors in Asia, Islamic finance and tourism, and more. Due to its innovative topics and approaches, geographical focus, and methodologies, the chapters provide readers with a unique value in bringing new perspectives to understanding emerging businesses and challenges in Asia. This book is ideal for professors in academia, deans, students, politicians, policymakers, corporate heads of firms, senior general managers, managing directors, information technology directors and managers, and researchers.

Build Decentralized Applications Using Hyperledger Fabric 2 Blockchain with Hyperledger Fabric Build decentralized applications using Hyperledger Fabric 2, 2nd Edition

The 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT) aims to provide a forum that brings together International researchers from academia and practitioners in the industry to meet and exchange ideas and recent research work on all aspects of Information and Communication Technologies including Computing, communication, IOT, LiDAR, Image Analysis, wireless communication and other new technologies

Blockchain Explained IGI Global
Blockchain with Hyperledger Fabric Build decentralized applications using Hyperledger Fabric 2, 2nd Edition Packt Publishing Ltd
Handbook of Research on Driving Transformational Change in the Digital Built Environment Springer Nature

This volume constitutes the refereed proceedings of the Confederated International International Workshop on Enterprise Integration, Interoperability and Networking (EI2N), Fact Based Modeling (FBM), Industry Case Studies Program (ICSP), and International Workshop on Methods, Evaluation, Tools and Applications for the Creation and Consumption of Structured Data for the e-Society (Meta4eS), held as part of OTM 2018 in October 2018 in Valletta, Malta. As the three main conferences and the associated workshops all share the distributed aspects of modern computing systems, they experience the application pull created by the Internet and by the so-called Semantic Web, in particular developments of Big Data, increased importance of security issues, and the globalization of mobile-based technologies.

Master The Art of Hyperledger Fabric on

Kubernetes Packt Publishing Ltd
The book not only implements Hyperledger Fabric, but also shows you how to build and model a blockchain network with Composer. You will master several business blockchain technologies under the Hyperledger umbrella, including Sawtooth, Iroha, decentralized Identity Hyperledger Indy, and Ethereum smart contract machine Burrow etc.

Understanding Blockchain and Cryptocurrencies Packt Publishing Ltd
IBM Blockchain Platform for Multicloud enables users to deploy the platform across public and private clouds, such as the IBM Cloud™, your own data center, and third-party public clouds, such as AWS and Microsoft Azure. It provides a blockchain console user interface that you can use to deploy and manage blockchain components on an IBM Cloud Private cluster. This IBM Redbooks™ publication discusses the major features, use case scenarios, deployment options, configuration details, performance and scalability considerations of IBM Blockchain Platform for Multicloud. We also cover step-by-step implementation details for both Secure Service Container and non-Secure Service Container environments. You also learn about the benefits of deploying and using a blockchain environment on LinuxONE. The target audience for this book is blockchain deployment specialists, developers and solution architects.

Hands-On Smart Contract Development with Hyperledger Fabric V2 Packt Publishing Ltd
In recent years, the surge of blockchain technology has been rising due to its proven reliability in ensuring secure and effective transactions, even between untrusted parties. Its application is broad and covers public and private domains varying from traditional communication networks to more modern networks like the internet of things and the internet of energy crossing fog and edge computing, among others. As technology matures and its standard use cases are established, there is a need to gather recent research that can shed light on several aspects and facts on the use of blockchain technology in different fields of interest. Enabling Blockchain Technology for Secure Networking and Communications consolidates the recent research initiatives directed towards exploiting the advantages of blockchain technology for benefiting several areas of applications that vary from security and robustness to scalability and privacy-preserving and more. The chapters explore the current applications of blockchain for networking and communications, the future potentials of blockchain technology, and some not-yet-prospected areas of research and its application. This book is ideal for practitioners, stakeholders, researchers, academicians, and students interested in the concepts of blockchain

technology and the potential and pitfalls of its application in different utilization domains. 15th International Workshop, STM 2019, Luxembourg City, Luxembourg, September 26 – 27, 2019, Proceedings Notion Press

Create real-world applications using Hyperledger Fabric with ease

KEY FEATURES - Understand the importance of Blockchain in an Enterprise. - Master the core characteristics of Blockchain, i.e., Decentralization, Cryptography, and Consensus Algorithms. - Get yourself acquainted with Hyperledger Fabric's core concepts and the design philosophy behind it. - Learn how to work with network configurations, TLS, PDC, ACL, RAFT, monitoring using Prometheus, and Grafana.

DESCRIPTION Hyperledger Fabric is an open-source Enterprise Blockchain project. It is best suited for Enterprise Solutions, where the aim is to deliver Blockchain ready solutions in a closed environment between multiple parties. This book aims to cover Hyperledger Fabric in-depth and its role in enterprise applications. This book is divided into two parts. The first part talks about Blockchain in general, decentralization, consensus algorithms, and various cryptographic primitives in Blockchain. It takes a cue from Bitcoin and Ethereum wherever required. This section aims to cement foundational concepts of Blockchain. The second section focuses on Hyperledger Fabric. It helps you to get a deep level understanding of its key core concepts, main constituents, architecture internals, and transaction flow. It is then followed by examples that will help you set up a network. A detailed explanation of Chaincode will help you understand how to write a Smart Contract, unit test, and deploy them in the dev network. This book also covers Network Configurations, ACLs, RAFT, and Monitoring so that you can start thinking about making production-grade applications.

WHAT WILL YOU LEARN - Get familiar with the fundamentals of Blockchain. - Understand the core concepts of Hyperledger's system architecture. - Create Fabric based blockchain networks with different configurations. - Learn to write, test and deploy smart contracts (chaincode) in Hyperledger. - Get familiar with the Security and Privacy aspect in Blockchain.

WHO THIS BOOK IS FOR This book is for anyone who wants to get started on blockchain. This book is for developers and architects who want to learn how to develop a fabric based blockchain application and apply advanced concepts that help them build enterprise grade applications.

TABLE OF CONTENTS

1. Understanding

2. World of Decentralization
3. Cryptography – a pillar
4. Consensus Algorithms
5. Blockchain in Enterprises
6. Hyperledger Fabric
7. Hyperledger Architecture and Transaction Flow
8. Setting up Fabric Network
9. Smart Contracts
10. Privacy and Security
11. Hyperledger Fabric v 2.0

Springer

In 25 concise steps, you will learn the basics of blockchain technology. No mathematical formulas, program code, or computer science jargon are used. No previous knowledge in computer science, mathematics, programming, or cryptography is required. Terminology is explained through pictures, analogies, and metaphors. This book bridges the gap that exists between purely technical books about the blockchain and purely business-focused books. It does so by explaining both the technical concepts that make up the blockchain and their role in business-relevant applications.

What You'll Learn

- What the blockchain is
- Why it is needed and what problem it solves
- Why there is so much excitement about the blockchain and its potential
- Major components and their purpose
- How various components of the blockchain work and interact
- Limitations, why they exist, and what has been done to overcome them
- Major application scenarios

Who This Book Is For Everyone who wants to get a general idea of what blockchain technology is, how it works, and how it will potentially change the financial system as we know it

[Database Systems for Advanced Applications](#)
Springer Nature

Unravel the mysteries of blockchains Blockchain technologies are disrupting some of the world ' s biggest industries. Blockchain For Dummies provides a fast way to catch up with the essentials of this quickly evolving tech. Written by an author involved in founding and analyzing blockchain solutions, this book serves to help those who need to understand what a blockchain can do (and can't do). This revised edition walks you through how a blockchain securely records data across independent networks. It offers a tour of some of the world ' s best-known blockchains, including those that power Bitcoin and other cryptocurrencies. It also provides a glance at how blockchain solutions are affecting the worlds of finance, supply chain management, insurance, and governments. Get a clear picture of what a blockchain can do

Learn how blockchains rule cryptocurrency and smart contracts

Discover current blockchains and how each of them work

Test blockchain apps

Blockchain has become the critical buzzword in the world of financial technology and transaction security — and now you can make sense of it with the help of this essential guide.

[A Non-Technical Introduction in 25 Steps](#) Packt Publishing Ltd

Integrate an end-to-end logistic chain using IBM Blockchain and IoT platforms

Key Features

- Explore practical implementation of ledger technology in the IoT architecture
- Study security best practices for your smart devices
- Understand Blockchain implementation for end-to-end IoT solutions

Book Description Blockchain has been

the hot topic of late thanks to cryptocurrencies. To make matters more interesting, the financial market is looking for ways to reduce operational costs and generate new business models, and this is where blockchain solutions come into the picture. In addition to this, with Internet of Things (IoT) trending and Arduino, Raspberry Pi, and other devices flooding the market, you can now create cheap devices even at home.

Hands-On IoT Solutions with Blockchain starts with an overview of IoT concepts in the current business scenario. It then helps you develop your own device on the IBM Watson IoT platform and create your first IoT solution using Watson and Intel Edison. Once you are familiar with IoT, you will learn about Blockchain technology and its use cases. You will also work with the Hyperledger framework and develop your own Blockchain network. As you progress through the chapters, you'll work with problem statements and learn how to design your solution architecture so that you can create your own integrated Blockchain and IoT solution. The next set of chapters will explain how to implement end-to-end Blockchain solutions with IoT using the IBM Cloud platform. By the end of this book, you will have mastered the convergence of IoT and Blockchain technology and exploited the best practices and drivers to develop a bulletproof integrated solution. What you will learn

- Understand the key roles of IoT in the current market
- Study the different aspects of IBM Watson IoT platform
- Create devices, gateways, and applications connected to the platform
- Explore the fundamentals of Blockchain
- Define good use cases for Blockchain
- Discover the Hyperledger Fabric and Composer frameworks
- Develop an IBM Watson IoT application using a Intel Edison
- Integrate IoT with the Blockchain platform

Who this book is for Hands-On IoT Solutions with Blockchain is for you if you are an Internet of Things (IoT) analyst, architect, engineer, or any stakeholder responsible for security mechanisms on an IoT infrastructure. This book is also for IT professionals who want to start developing solutions using Blockchain and IoT on the IBM Cloud platform. Basic understanding of IoT will assist you in understanding key concepts covered in the book.