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BLOCKCHAIN: BEYOND BITCOIN

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What is Blockchain?

Introduction to Blockchain

- 1. Definition and key characteristics
- 2. Brief history and evolution

Blockchain Fundamentals

- 1. Distributed ledger technology (DLT)
- 2. Immutable data structure
- 3. Decentralization and trustlessness

Use Cases and Applications

- 1. Beyond cryptocurrency (e.g., supply chain, healthcare, finance)
- 2. Advantages and potential challenges

Consensus Mechanisms

Introduction to ConsensusSmart Contract Programming Basics

- 1. The role of consensus in blockchain
- 2. Trust and consensus models

Proof of Work (PoW)

- 1. Overview and mechanics
- 2. Bitcoin as an example

Proof of Stake (PoS)

- 1. Overview and mechanics
- 2. Ethereum and other examples

Other Consensus Mechanisms

- 1. Delegated Proof of Stake (DPoS)
- 2. Practical Byzantine Fault Tolerance (PBFT)

3. Proof of Authority (PoA)

Pros and cons of different consensus mechanisms

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Introduction to Ethereum

- 1. Overview and key features
- 2. Smart contracts and decentralized applications (DApps)

Ethereum Virtual Machine (EVM)

- 1. Architecture and execution environment
- 2. Gas and transaction fees

Solidity Programming Language

- 1. Syntax and basic concepts
- 2. Writing and deploying smart contracts

Interacting with the Ethereum Network

- 1. Web3.js and other development tools
- 2. Setting up a development environment

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Smart Contracts

Understanding Smart Contracts

- 1. Definition and characteristics
- 2. Benefits and potential use cases

Smart Contract Development

- 1. Writing smart contracts in Solidity
- 2. Compiling and deploying smart contracts

Security Considerations

- 1. Common vulnerabilities and best practices
- 2. Auditing and testing smart contracts

04

Ethereum Fundamentals

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Becoming a Blockchain Developer

Skills and Knowledge Required

- 1. Programming languages and frameworks
- 2. Understanding cryptography and data structures

Learning Resources and Tools

- 1. Online courses and tutorials
- 2. Developer communities and forums

Career Opportunities and Future Outlook

- 1. Industry demand and growth potential
- 2. Role of blockchain developers in various sectors

05

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- · Addressing participant questions and concerns
- Further discussions on specific topics of interest

06

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