

**Envoy-VC**

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Blockchain App Developer Roadmap 🌟🌟🌟

#blockchain #roadmap #beginners #web3

Blockchain Series (4 Part Series)

- 1 **Blockchain App Developer Roadmap** 🌟🌟🌟
- 2 What's The Blockchain?
- 3 Blockchain Key Terms
- 4 How Secure is Blockchain!

First of all you can star this Roadmap on Github to continue reading or Scroll Down and Read Resources.

**Envoy-VC / blockchain-app-developer-roadmap**

A Step By Step Roadmap for those who want to Learn Blockchain Development from Beginning.

dApp Developer Roadmap

Roadmap to becoming a dApp developer in 2022: Below you can find a chart demonstrating the paths that you can take and the libraries that you would want to learn to become a dApp developer. I made this chart as a tip for everyone who asks me, "What should I learn to be a dApp Developer and where to start?"

[View on GitHub](#)

dApp Developer Roadmap

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Resources

Contents

1. Basics

1. Blockchain

- Learn the basics of Distributed Ledger Technology (DLT)
- Bitcoin protocol [Explained](#)
- Elliptic Curve Cryptography [link](#)

2. Ethereum

- Learn the basics of Ethereum
- Ethereum Virtual Machine (EVM)-- turing complete
- Learn about Wallets, Accounts (EOA), Private/Public Keys
- Learn about transactions, Gas, Metamask
- Ethereum clients/Nodes, Geth
- Infura infrastructure

3. Smart Contract

- Basics of Smart Contract
- Life Cycle of Smart Contract
- Ethereum Higher Level languages (**Solidity**, Vyper, LLL, Serpent)
- Compiling, testing, Deploying smart Contracts
- Interacting with smart contracts using web3.js or web3.py

2. General Development Skills

1. Learn [GIT](#), create a few repositories on [GitHub](#) / [GitLab](#), share your code with other people
2. Know HTTP(S) protocol, request methods (GET, POST, PUT, PATCH, DELETE, OPTIONS)
3. Don't be afraid of using Google, [Power Searching with Google](#)
4. Get familiar with terminal ([Linux/Docker](#)), configure your shell (bash, zsh, fish)
5. Read a few books about algorithms and data structures, blockchain, Ethereum, solidity
6. Web Development Concepts
7. Basic Mathematics

3. Learn React on [official website](#) or complete some [courses](#)

4. Get familiar with tools that you will be using

7. Get familiar with tools that you will be using

1. Package Managers

- [npm](#)
- [yarn](#)
- [pnpm](#)

2. IDE's

- [Remix IDE](#)
- [Ethfiddle](#)
- [labs.superblock](#)
- [Truffle](#)
- [Populus](#)

3. [Solidity v0.5.3](#)

4. [Vyper](#)

5. Frameworks

1. Truffle Suite (Recommended)

- [Truffle](#)
- [Ganache](#)
- [Drizzle](#)
- [Tutorials](#)
- [Truffle Under the Hood](#)

2. Zeppeline OS

- [Getting Started](#)

3. Labs.Superblock

- [Labs.superblocks](#)
- [Video Tutorials](#)
- [dapp Tutorial](#)

4. Populus (Python)

- [Populus](#)
- [Tutorial](#)

5. Infura (A Gateway to Ethereum)

- [Mainnet End Point](#)
- [Ropsten TestNet End Point](#)
- [Kovan TestNet End Point](#)
- [Rinkby TestNet End Point](#)

- [IPFS](#)

6. Interacting with Smart Contract

- [Web3.js](#)
- [Web3.py](#)

7. Python Ethereum Eco System

- [Article](#)

6. [Distributed Storage Systems](#)

1. [IPFS](#)
2. [SWARM](#)
3. [Storej](#)
4. [Sia](#)

7. Ethereum Naming Service

- [ENS](#)

8. Front End App

- [React / React Native](#)
- [React Roadmap](#)

Further Readings

Recommended Articles

1. [Awesome Ethereum Resource Lists](#)
2. [Comprehensive Ethereum Developer Resource List](#)

Recommended Libraries

1. [Solidity Smart Contract Library: OpenZeppeline](#)
2. ### Books
2. [Mastering Ethereum: Building Smart Contracts and DApps](#)

Courses

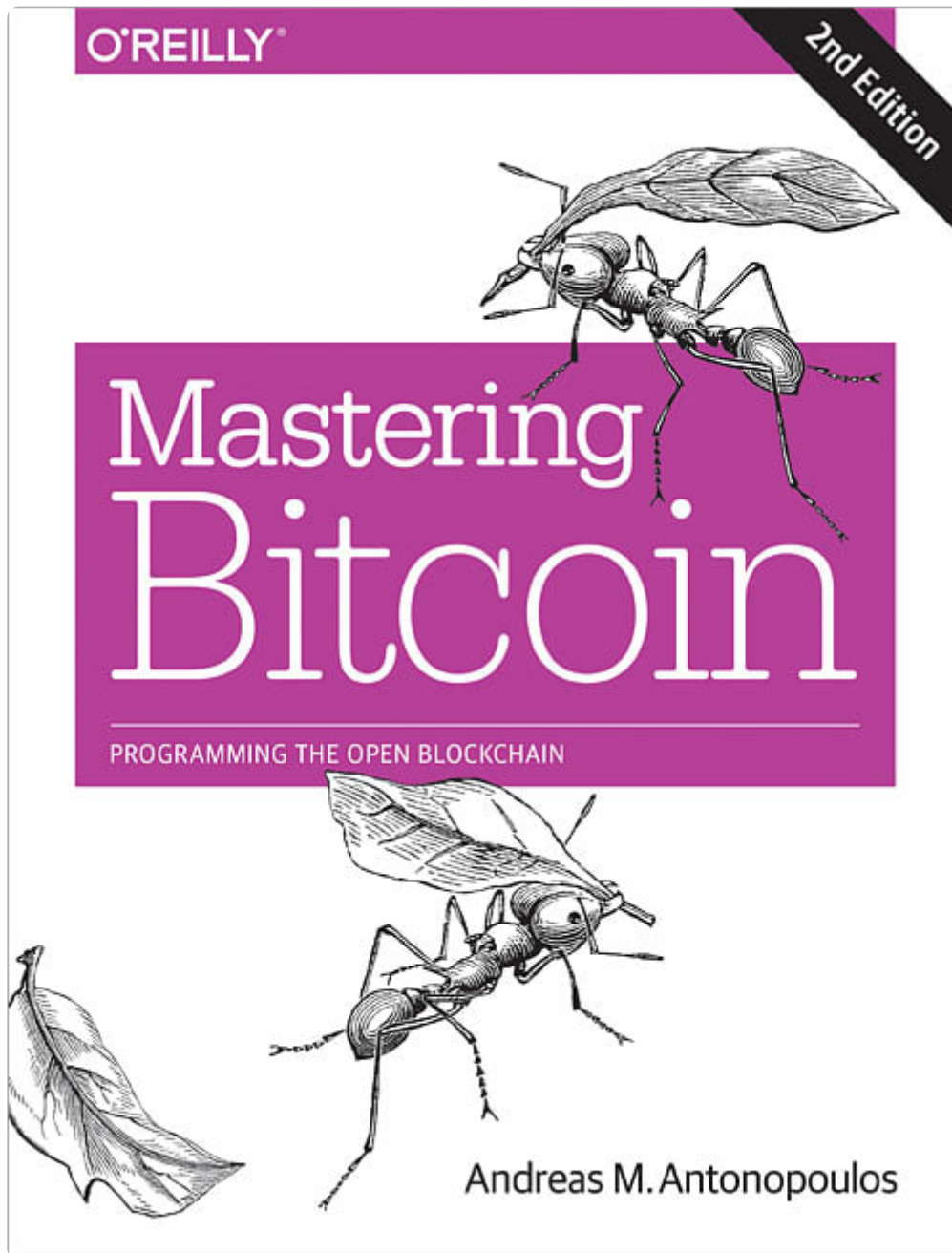
1. [Ethereum and Solidity: The Complete Developer's Guide](#)

Youtube/Medium Channels

1. [Coinmonks](#)
2. [Dapp University Website](#), [Dapp University Youtube](#)
3. [Zeppeline](#)

Books

Mastering Bitcoin: Programming the Open Blockchain, 2nd Edition (2017)



Join the technological revolution that's taking the financial world by storm. Mastering Bitcoin is your guide through the seemingly complex world of bitcoin, providing the knowledge you need to participate in the internet of money. Whether you're building the next killer app, investing in a startup, or simply curious about the technology, this revised and expanded second edition provides essential detail to get you started.

Mastering Blockchain, 2nd Edition (2018)



A blockchain is a distributed ledger that is replicated across multiple nodes and enables immutable, transparent and cryptographically secure record-keeping of transactions. The blockchain technology is the backbone of cryptocurrencies, and it has applications in finance, government, media and almost all other industries. Mastering Blockchain, Second Edition has been thoroughly updated and revised to provide a detailed description of this leading technology and its implementation in the real world.

Blockchain and the Law: The Rule of Code (2018)

BLOCKCHAIN and the LAW

Primavera De Filippi

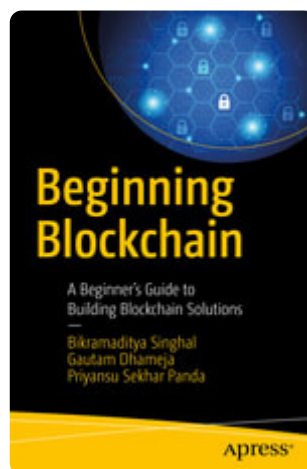
Aaron Wright

The RULE of CODE



Since Bitcoin appeared in 2009, the digital currency has been hailed as an Internet marvel and decried as the preferred transaction vehicle for all manner of criminals. It has left nearly everyone without a computer science degree confused: Just how do you “mine” money from ones and zeros? The answer lies in a technology called blockchain, which can be used for much more than Bitcoin.

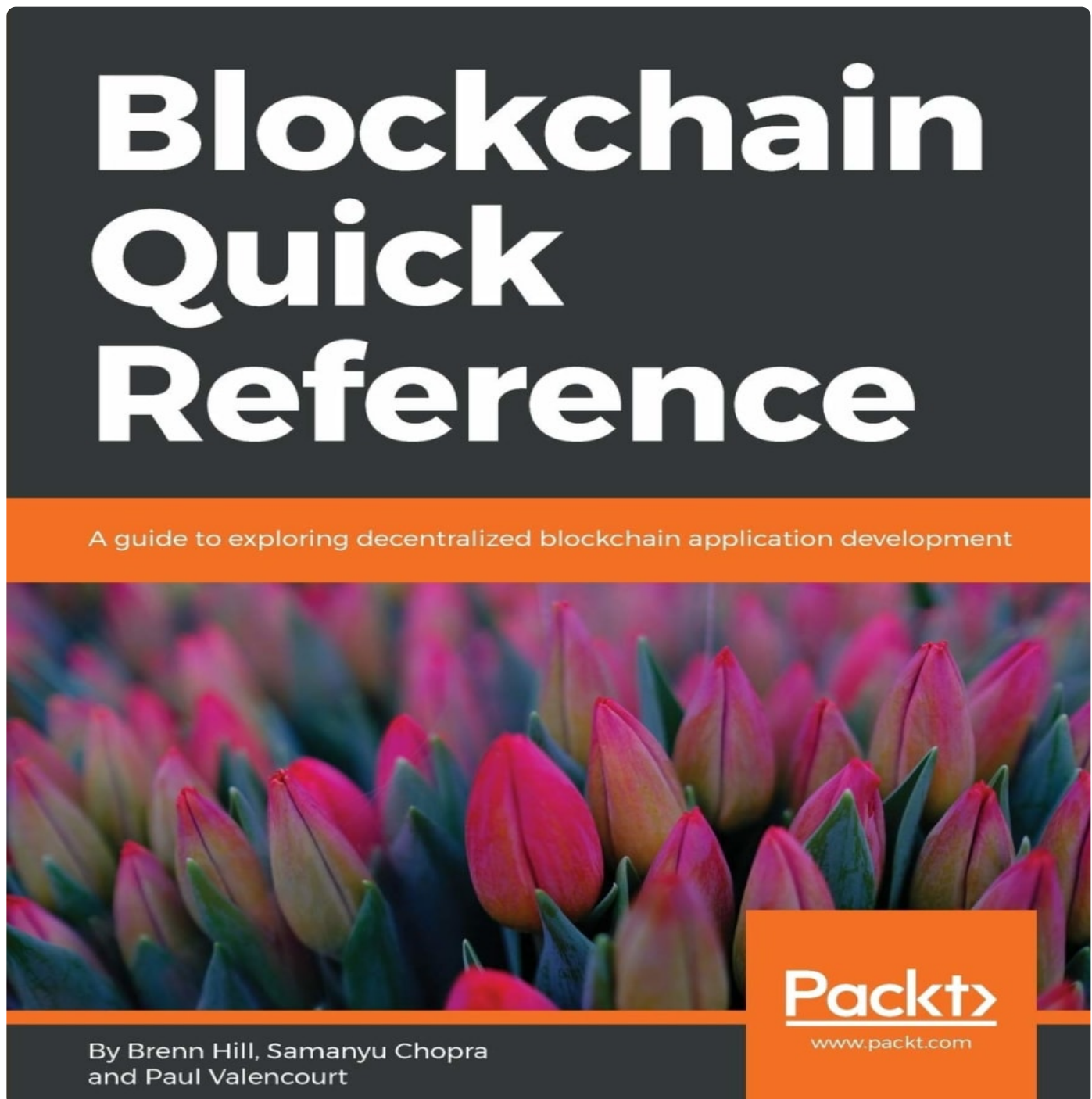
Beginning Blockchain: A Beginner’s Guide to Building (2018)



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.

Blockchain Quick Reference (2018)



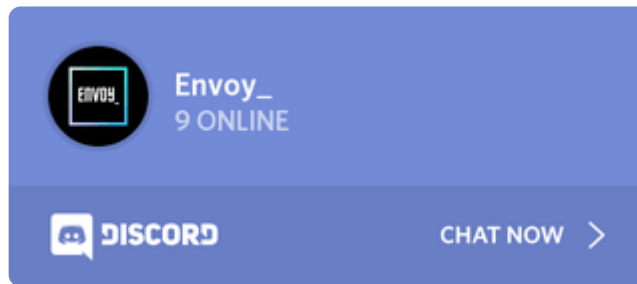
Blockchain Quick Reference takes you through the electrifying world of blockchain technology and is designed for those who want to polish their existing knowledge regarding the various pillars of the blockchain ecosystem.

Blockchain: Blueprint for a New Economy (2015)



Bitcoin is starting to come into its own as a digital currency, but the blockchain technology behind it could prove to be much more significant. This book takes you beyond the currency ("Blockchain 1.0") and smart contracts ("Blockchain 2.0") to demonstrate how the blockchain is in position to become the fifth disruptive computing paradigm after mainframes, PCs, the Internet, and mobile/social networking.

Hit me up on discord if you have any Questions or need any Book



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Discussion (5)



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Thanks for this.

I'm in search of resource of using Rust for blockchain development, have you got any



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You can refer this repo for Blockchain In Rust

[github.com/rust-in-blockchain/awes...](https://github.com/rust-in-blockchain/awesome)



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Thank you 😊



hieutk • Dec 13 '21



doc.rust-lang.org/book/

Our team develop Dex (Polkadot network). You can join my team if you wish to work on blockchain.



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How do I get on your team.

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A Passionate Learner

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