Decentralized Applications: Harnessing Bitcoin's Blockchain Technology

By Siraj Raval

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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

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Editorial Review

About the Author

Siraj Raval is a dapp developer & entrepreneur. He is founder of a crowdfunding platform for developers called Havi, has developed several iOS apps including Meetup, and has worked on a host of open source work. Besides being a programmer, Siraj is also a traveler, musician, postmodernist, and scuba diver.

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