

Mayukh Mukhopadhyay

# Ethereum Smart Contract Development

Build blockchain-based decentralized applications  
using solidity



Packt

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Become an Ethereum Blockchain programmer using a blend of principles and hands-on implementations

**Key Features**

- Understand the Ethereum Ecosystem and its differences from its rich cousin Bitcoin
- Explore the Solidity programming language and smart contract optimizations
- Get a developer's perspective of Blockchain-as-a-technology with contact with common issues faced while building decentralized applications

**Book Description**

Ethereum is a open public, blockchain-based distributed computing platform featuring smart contract functionality. By the end of this reserve, we discuss blockchain-as-a-support, the dark web industry, and various advanced topics to get amply trained with the blockchain concepts and ecosystem. We begin by introducing you to the basics of blockchain. Basic knowledge of cryptography can be expected but isn't mandatory. Then you'll find out about Ethereum and sensible contracts, and we'll cover Ethereum virtual machine (EVM) in detail. Next, you'll get familiar with DApps and DAOs and see how they function. Further on, you'll get to know the key ideas of the Solidity programming language, enabling you to build decentralized blockchain-centered applications. We'll also appear at enterprise use cases, where you'll build a decentralized microblogging site. We'll also explore the mechanisms of advanced sensible contracts, taking a practical approach. You can also learn to develop your own cryptocurrency from scratch in order to understand the business behind ICO. This reserve is your one-stop guide to blockchain and Ethereum smart contract advancement.

**What you will learn**

- Know developing your own smart contracts and cryptocurrencies
- Understand the Solidity language
- Find out about data types, control framework, functions, inheritance, mathematical procedures, and much more
- See the various types of forks and discover how they are related to Ethereum
- Get to know the various principles of web3.js and its own APIs so you can build client-part apps
- Build a DAO from scratch and acquire routine knowledge of DApps on Etherscan
- Be guided through the project so you can optimize EVM for clever contracts
- Build your very own decentralized applications (DApps) by taking a practical approach

**Who This Publication Is For**

If you would like to know the ins and outs of the Ethereum network and build your own decentralized applications, after that this book is what you need! This reserve is if you are thinking about blockchain and really wants to become an Ethereum developer. It's ideal for existing Ethereum programmers who want to develop Ethereum using wise contracts. You'll find out about hash functions, Merkle trees, forking, mining, and much more.

**Table of Contents**

- Blockchain Basics
- Grokking Ethereum
- Hello World of Ethereum
- Wise Contract
- Noob's Guide for DApps and DAOs
- Deep-diving to Smart Contracts
- Solidity in Depth
- Primer in Web3.js
- Developing a crypto currency from Scratch
- Enterprise Use-Cases
- Blockchain-as-a-Service and Dark Net Marketplace
- Appendix: Advanced Topics and the street ahead



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No, this is simply not a one-stop publication for Ethereum Development I've reached 75% of the publication, and I'm fairly disappointed about the book - even to the degree that I want my money back. 1 star for novelty, blockchain development is still a fairly new subject, it's great that the writer gets the motivation in sharing the knowledge. The author may be a good developer but not a qualified instructor at all. - "The code works on my machine": When showing how exactly to deploy a private blockchain on a local machine, there is absolutely no in-depth illustration about how exactly Mist & For instance, `function MyFunc() public continuous return device`, as a developer (once again! Ultimately, I need to work out how to repair the issue myself because of the various configuration file locations. - "We will discuss it later in-depth": Good. But also in the afterwards parts, there is no in-depth dialogue. The reserve asked you to copy & I have found a few other ML related books to become identical in content -- just surprisingly low quality, hard to check out and seemingly not even proof browse at all. Geth instructions work (like which document is the socket that Mist will read from to view the private blockchain), I'm a developer myself and reside in command lines every day. In short, the book is similar to an introduction to Ethereum development, no in-depth discussion at all. However it did not cover some of the development tools that very much that I could see e. 1 star for the content.) I question what `constant` means right here. I would say this is an OK starting place but it's just fine. "Your one-stop guide to learning about Blockchain and Ethereum Sensible Contract development"? NO WAY! General Ethereum overview, comparable to other titles Ethereum Smart Contract Development: Build blockchain-based decentralized applications using solidity This book was very good, it covered materials on the internet3 api (there are a-lot of functions), it covered may the areas and had snippets of code. What I love most about this was the usage of the remix editor in detail, that was great. But after looking in the complete Kindle reserve, I don't find any illustration concerning the `continuous` modifier. g. truffle, solc (solidity compiler), parity etc. Could be worse, or better but ought to be enough to get you started :D Terrible book This is typical of some of the newer Packt releases where they just cram some content together merely to publish \*something\* on confirmed topic. paste some code blocks, but never show you why.

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