

## Course Overview

Study The Blockchain is a part-time 1.5 month online bootcamp. This program provides:

- A carefully **constructed curriculum** reviewed by industry experts from MetaMask, ConsenSys, uPort, Adobe and IBM
- An **online classroom** with live video, screen share and chat
- **Live instruction** from blockchain engineers
- Tons of **group work**
- **One-on-ones** with your instructor
- **Feedback** on your DApp from blockchain engineers
- **Presentation event(s) where you can showcase** your DApp to blockchain companies
- Guest speakers from the industry
- **Professional Blockchain Developer Certificate** upon completion
- Post graduation, **keep in touch and network** with alum in a Slack chat
- Repeat the live course as many times as you'd like, **for free**

Throughout each class we will:

- Discuss when (and when not) to make an app decentralized
- Constantly build decentralized applications
- Go over code in small groups
- Debug coding problems
- Create user interface for blockchain applications
- Go over deployment
- Go over Smart Contract best practices, testing, optimizing code to reduce gas expenditure
- Go over security best practices

Your class spans six weeks of work and a lifetime of opportunity and connections. Classes are each three hours long and are always recorded. Students constantly keep in contact and communicate using Slack. We also allocate time for the instructor to tutor you one-on-one! [Reserve your spot today.](#)

**Enroll Now at [StudyTheBlockchain.com](https://StudyTheBlockchain.com)**

## Upcoming Course Schedule

#	Date	Time	Topic/Activity
1	Monday March 25, 2019	5:30pm Pacific	Environment setup check; Intro to Ethereum, Remix, Ganache, Metamask, setup a smart contract in Remix
2	Wednesday March 27, 2019	5:30pm Pacific	Connecting to smart contract via web3, intro to DApp creation, intro to solidity
3	Friday March 29, 2019	5:30pm Pacific	<b>Intro to Truffle</b> , intro to uints, addresses, structs and mappings
4	Monday April 1, 2019	5:30pm Pacific	Using a mapping, memory vs storage, global variables, emitting events, arrays
5	Wednesday April 3, 2019	5:30pm Pacific	<b>Donation DApp, Taking payments</b> , extending contracts, establishing an owner in a contract, constructor functions, accessing a contract and information about the contract within the contract, transferring a balance in a contract, wei
6	Friday April 5, 2019	5:30pm Pacific	Function modifiers, OpenZeppelin, inheritance
7	Monday April 8, 2019	5:30pm Pacific	Erc20 contract walk through, web wallet walk through, final project idea sharing
8	Wednesday April 10, 2019	5:30pm Pacific	Function visibility modifiers, view, pure, storage vs memory, random numbers, binary code
9	Friday April 12, 2019	5:30pm Pacific	<b>Homework one due, Medical Records DApp</b> walk-through, intro to hex code, <b>creating an Ethereum address from scratch</b> , coding out a part of a <b>voting DApp</b>

# STUDY THE BLOCKCHAIN

#	Date	Time	Topic/Activity
10	Monday April 15, 2019	5:30pm Pacific	<b>Bike License DApp</b> walk-through, writing your own function modifiers, for loops, calling constructor functions from multiple contracts, SafeMath library, using interfaces to speak to live contracts
11	Wednesday April 17, 2019	5:30pm Pacific	How to set up an ICO, how to deploy a contract that depends on another contract
12	Friday April 19, 2019	5:30pm Pacific	<b>ICO Crowdsale DApp</b> creation continued
13	Monday April 22, 2019	5:30pm Pacific	<b>IPFS</b> (decentralized cloud storage), integrating IPFS into your DApp
14	Wednesday April 24, 2019	5:30pm Pacific	ERC721 walkthrough and <b>Real Estate DApp</b> that utilizes ERC721
15	Friday April 26, 2019	5:30pm Pacific	Self destruct, libraries, require vs assert vs revert, dealing with time, function overloading
16	Monday April 29, 2019	5:30pm Pacific	<b>Authentication via uport, upgradable architecture, oracles</b>
-	-	-	<i>Begin work on final project</i>
17	Wednesday, May 15, 2019	5:30pm Pacific	Work on your final project and get help from your instructor
18	Monday, May 20, 2019	5:30pm Pacific	Work on your final project and get help from your instructor
19	Friday May 24, 2019	5:30pm Pacific	Mock Presentations (practice for your final presentation)
20	Monday May 27, 2019	5:30pm Pacific	Mock Presentations (practice for your final presentation)
21	Wednesday May 29, 2019	5:30pm Pacific	<b>Final Presentations (online) - you will present to blockchain companies and the blockchain community</b>

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# Technologies Used

## Metamask

<https://metamask.io/>

MetaMask is a bridge that allows you to visit the distributed web of tomorrow in your browser today. It allows you to run Ethereum dApps right in your browser without running a full Ethereum node. MetaMask includes a secure identity vault, providing a user interface to manage your identities on different sites and sign blockchain transactions.

## Remix

<https://remix.ethereum.org>

Remix is an IDE for the smart contract programming language Solidity and has an integrated debugger and testing environment.

## Web3

<https://github.com/ethereum/web3.js/>

Ethereum JavaScript API

## Truffle

<http://truffleframework.com/>

Truffle is the most popular development framework for Ethereum with a mission to make your life a whole lot easier. It has Built-in smart contract compilation, linking, deployment and binary management, automated contract testing for rapid development, scriptable deployment & migrations framework, network management for deploying to both public & private networks, access to hundreds of external packages, interactive console for direct contract communication, external script runner that executes scripts within a truffle environment, built for speed.

## **Ganache**

<http://truffleframework.com/ganache/>

<https://github.com/trufflesuite/ganache-cli>

Quickly fire up a personal Ethereum blockchain which you can use to run tests, execute commands, and inspect state while controlling how the chain operates. It's basically tool we'll use to create a private blockchain that runs on our machine only.

## **OpenZeppelin**

<https://openzeppelin.org/>

OpenZeppelin is an open framework of reusable and secure smart contracts in the Solidity language.

## **IPFS**

<https://ipfs.io/>

A peer-to-peer hypermedia protocol to make the web faster, safer, and more open. It's basically aiming to replace HTTP and build a better web for all of us.

## **Uport**

<https://www.uport.me/>

A self-sovereign identity and user-centric data platform: the keys to the digital world you've always wanted. It's basically decentralized authentication.

## Questions? Contact Us

If you have further questions do not hesitate to contact us at [customer@studytheblockchain.com](mailto:customer@studytheblockchain.com).

If you would like to enroll, then visit [StudyTheBlockchain.com](https://StudyTheBlockchain.com) to reserve your spot.

**Enroll Now at [StudyTheBlockchain.com](https://StudyTheBlockchain.com)**