

Blockchain DApp Developer Career Path – Beginners

Week - 1: Learn Fundamentals of Blockchain

- What is Blockchain: <https://www.youtube.com/watch?v=2yJqjTiwpXM>
- Introduction: <https://www.geeksforgeeks.org/introduction-to-blockchain/?ref=lbp>
- How does a blockchain work: https://www.youtube.com/watch?v=SSo_ElWHSd4
- Bitcoin White Paper: <https://bitcoin.org/bitcoin.pdf>
- What is Cryptography: <https://www.geeksforgeeks.org/cryptography-introduction/>
 - Cryptography: <https://www.youtube.com/watch?v=2sPpuMclSQU>
- What Is Hashing: <https://blockgeeks.com/guides/what-is-hashing/>
 - Hashing in Blockchain: <https://www.youtube.com/watch?v=rcNg9KsXuMc>
- Consensus in Blockchain: <https://www.youtube.com/watch?v=lb81CiQj21E>
 - Proof of Work: <https://www.youtube.com/watch?v=dW2Jit8ViGI>
 - Proof of Stake: https://www.youtube.com/watch?v=M3EFi_POhps
- Distributed vs Decentralized: <https://zipmex.com/learn/distributed-vs-decentralized/>
- Types of Blockchain:
<https://www.foley.com/en/insights/publications/2021/08/types-of-blockchain-public-private-between>
 - Types of Blockchain (Video): <https://www.youtube.com/watch?v=uiHbJPZIT1k>

Week - 2: Learn Ethereum Blockchain

- What is Ethereum: <https://ethereum.org/en/what-is-ethereum/>
 - Ethereum Blockchain (Video): https://www.youtube.com/watch?v=3_CYeEL9hwI
 - Detailed Ethereum (Video): <https://www.youtube.com/watch?v=jxLkbJozKbY>
- What is Ether: <https://ethereum.org/en/eth/>
 - Ether (Video): <https://www.youtube.com/watch?v=fjnovGRQrRE>
- Ethereum Whitepaper: <https://ethereum.org/en/whitepaper/>
- The history of Ethereum: <https://ethereum.org/en/history/>
- Ethereum Upgrades: <https://ethereum.org/en/upgrades/>
- Introduction to Ethereum Improvement Proposals (EIPs):
<https://ethereum.org/en/eips/>

- Introduction to DApps: <https://ethereum.org/en/developers/docs/dapps/>
 - What is Dapps (Video): <https://www.youtube.com/watch?v=CDQX8inMct0>
- Web2 Vs Web3: <https://ethereum.org/en/developers/docs/web2-vs-web3/>
 - Intro to Web3: <https://ethereum.org/en/web3/>
 - Web3 (Video): <https://www.youtube.com/watch?v=rgeQwaJQ4MM>
- Ethereum Accounts: <https://ethereum.org/en/developers/docs/accounts/>
 - Ethereum Accounts (Video): https://www.youtube.com/watch?v=EpAXK3_Eaog
- Transactions: <https://ethereum.org/en/developers/docs/transactions/>
 - Transactions (Video): <https://www.youtube.com/watch?v=2EhKeQHFeTs>
- What are Blocks: <https://ethereum.org/en/developers/docs/blocks/>
- Ethereum Virtual Machine (Video): <https://www.youtube.com/watch?v=GPoze5RmDVU>
 - <https://ethereum.org/en/developers/docs/evm/>
- Gas and Fee: <https://ethereum.org/en/developers/docs/gas/>
- Nodes and Clients: <https://ethereum.org/en/developers/docs/nodes-and-clients/>
- Networks: <https://ethereum.org/en/developers/docs/networks/>
- Consensus Mechanisms: <https://ethereum.org/en/developers/docs/consensus-mechanisms/>
- Ethereum Stack: <https://ethereum.org/en/developers/docs/ethereum-stack/>
- Standards: <https://ethereum.org/en/developers/docs/standards/tokens/>

Week - 3: Learn Solidity - Smart Contracts Language

- What is Smart Contract (Video): <https://www.youtube.com/watch?v=ZE2HxTmxfrI>
 - <https://ethereum.org/en/developers/docs/smart-contracts/>
- Solidity Official Documentation: <https://docs.soliditylang.org/en/v0.8.13/>
- Remix IDE for Smart Contract: <https://remix.ethereum.org/>
- Solidity Youtube Video Playlist: <https://www.youtube.com/watch?v=MnSmc7Hto2k&list=PLS5SEs8ZftgUq-aMMYeKf8nPqHrNqa3lu>
- Master Solidity: https://www.youtube.com/watch?v=pqxNmdwEHio&list=PLS5SEs8ZftgVnWHv2_mk_vJjn5HB0kde3g

Week - 4: Learn JavaScript, Node Js and React Js - Frontend

- JavaScript - 1 Hour Video: <https://www.youtube.com/watch?v=W6NZfc05SIk>
 - JavaScript Docs: https://developer.mozilla.org/en-US/docs/Learn/JavaScript/First_steps/What_is_JavaScript
- Node Js: https://www.youtube.com/watch?v=TIb_eWDSMt4
 - Node Js Docs: <https://nodejs.org/en/docs/guides/>

- React Js: <https://www.youtube.com/watch?v=Ke90Tje7VS0>
 - React Js Docs: <https://reactjs.org/docs/getting-started.html>

Week - 5: Learn Web3 Js and MetaMask Wallet

- Web3.js - Ethereum JavaScript API (Official Docs): <https://web3js.readthedocs.io/en/v1.7.3/>
- Web3.js Intro: <https://www.youtube.com/watch?v=t3wM5903ty0>
- Web3.js full course: <https://www.youtube.com/watch?v=u3PtGMRmGA0>
- Meta Mask Wallet (Official Docs): <https://docs.metamask.io/guide/>
- What is Meta Mask Wallet: <https://www.youtube.com/watch?v=YVgfHZMFFFQ>
- Metamask: Step-by-Step Guide: <https://www.youtube.com/watch?v=MfkqgXNPiHg>
- How to Use MetaMask: <https://www.youtube.com/watch?v=tw-tQD0jztE>

Week - 6: Learn Truffle, Ganache and Testnets

- Truffle Docs: <https://trufflesuite.com/docs/truffle/>
 - Truffle Tutorial: <https://www.youtube.com/watch?v=62f757RVEvU>
- Ganache: <https://trufflesuite.com/docs/ganache/>
 - Ganache CLI: <https://www.youtube.com/watch?v=ziRw310TQOE>
 - Ganache: <https://www.youtube.com/watch?v=hvWEiIE52k>
- Testnets: <https://www.youtube.com/watch?v=TCpfVgzhgh0>
- Get Faucets - Ethers
 - <https://faucet.rinkeby.io/>
 - <https://faucets.chain.link/>

Practice Project - Coming Soon

Recommended Courses:

- Blockchain Course (Recommended) : https://www.youtube.com/watch?app=desktop&v=U2P_Epjcx1I&list=PL1Xmyl4aKTRjZTZSA_gVpk2xf6QKr_QyZ
- Blockchain Full Course Overview : <https://www.youtube.com/watch?v=VU59tR982W4&list=PLgPmWS2dQHW-BRQCQCNYgmHUfCN115pn0>
- Solidity Full Course - 4 hours : <https://www.youtube.com/watch?v=NqGe942J4Y0&t=430s>