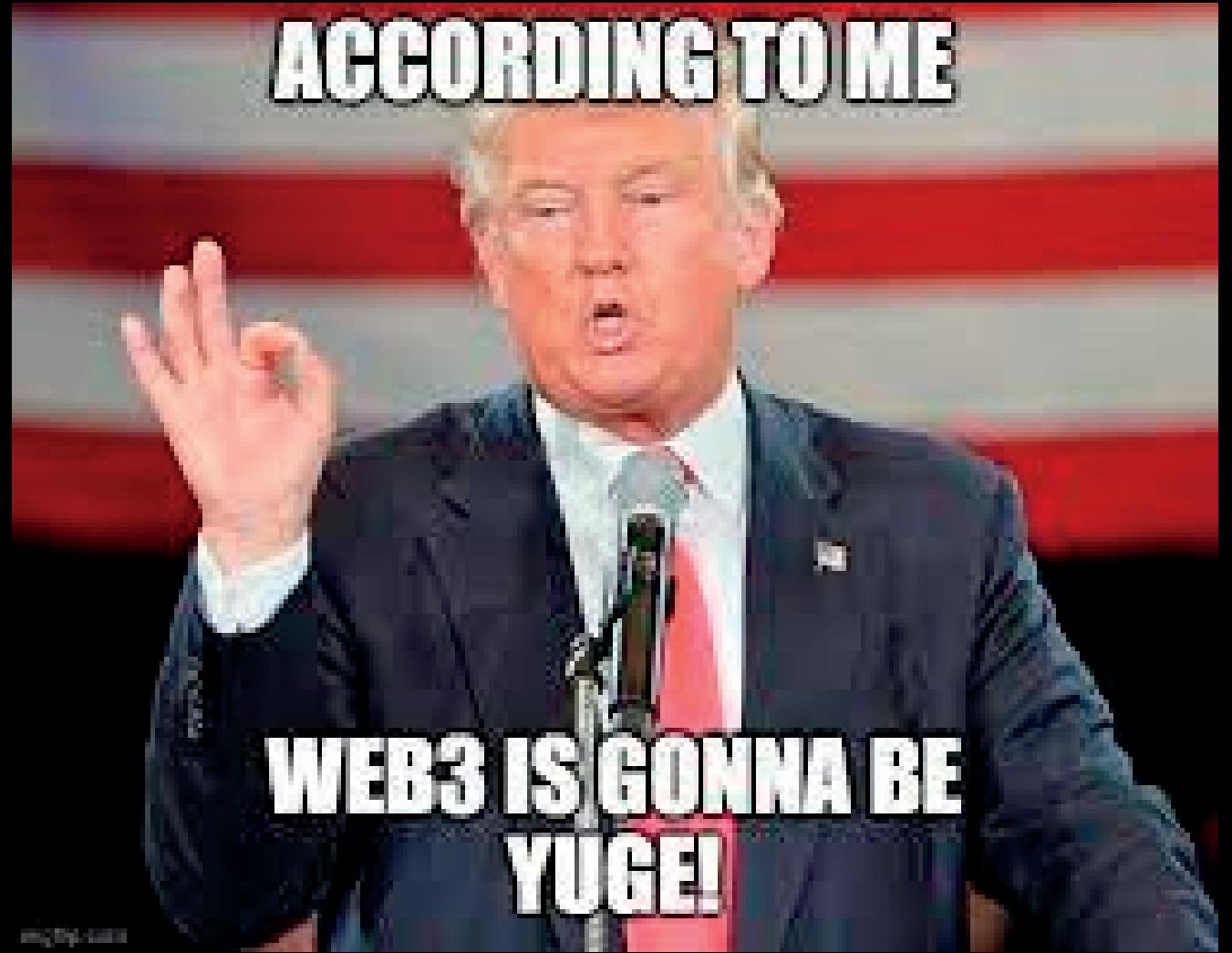


GDSC X CodeCademy

INTRODUCTION TO SOLIDITY

AUGUST 9,
2022



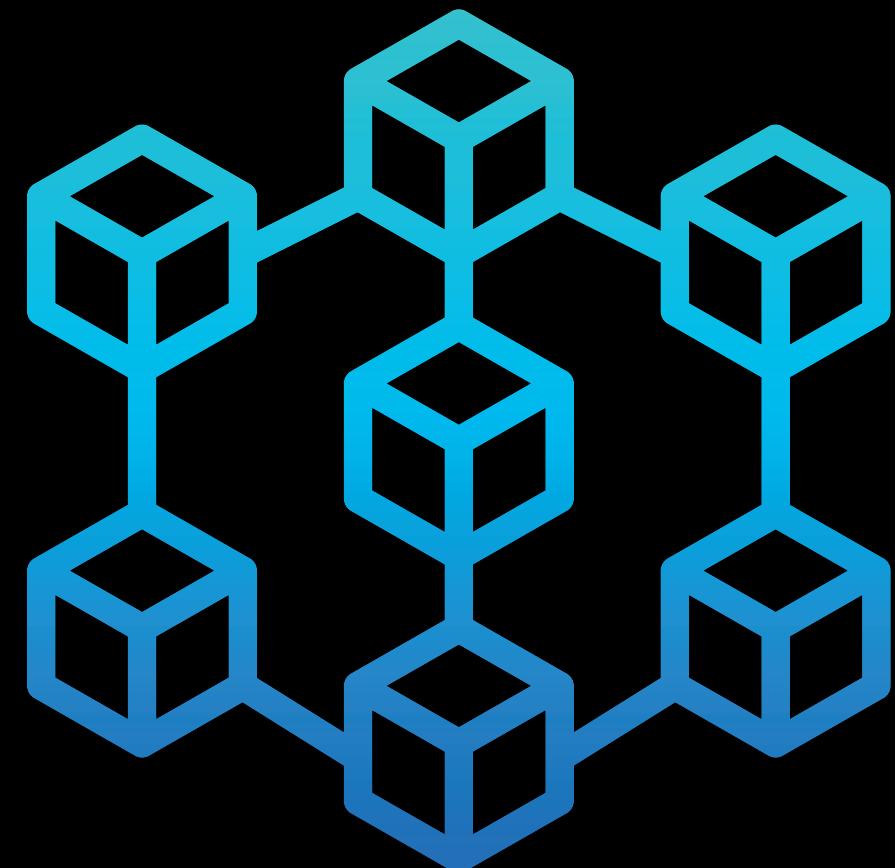


What is Blockchain?

In a few words, a blockchain is a digital ever-growing list of data records. Such a list is comprised of many blocks of data, which are organized in chronological order and are linked and secured by cryptographic proofs.

Although the blockchain technology is older than Bitcoin, it is a core underlying component of most cryptocurrency networks, acting as a decentralized, distributed and public digital ledger that is responsible for keeping a permanent record (chain of blocks) of all previously confirmed transactions.

Blockchain transactions occur within a peer-to-peer network of globally distributed computers (nodes). Each node maintains a copy of the blockchain and contributes to the functioning and security of the network. This is what makes Bitcoin a decentralized digital currency that is borderless, censorship-resistant, and that does not require third-party intermediation.



dapps

In a few words, a blockchain is a digital ever-growing list of data records. Such a list is comprised of many blocks of data, which are organized in chronological order and are linked and secured by cryptographic proofs.

Decentralized applications (dApps) are digital applications or programs that exist and run on a blockchain or peer-to-peer (P2P) network of computers instead of a single computer. DApps (also called "dapps") are outside the purview and control of a single authority. DApps—which are often built on the Ethereum platform—can be developed for a variety of purposes including gaming, finance, and social media.



How to make your first dapp?

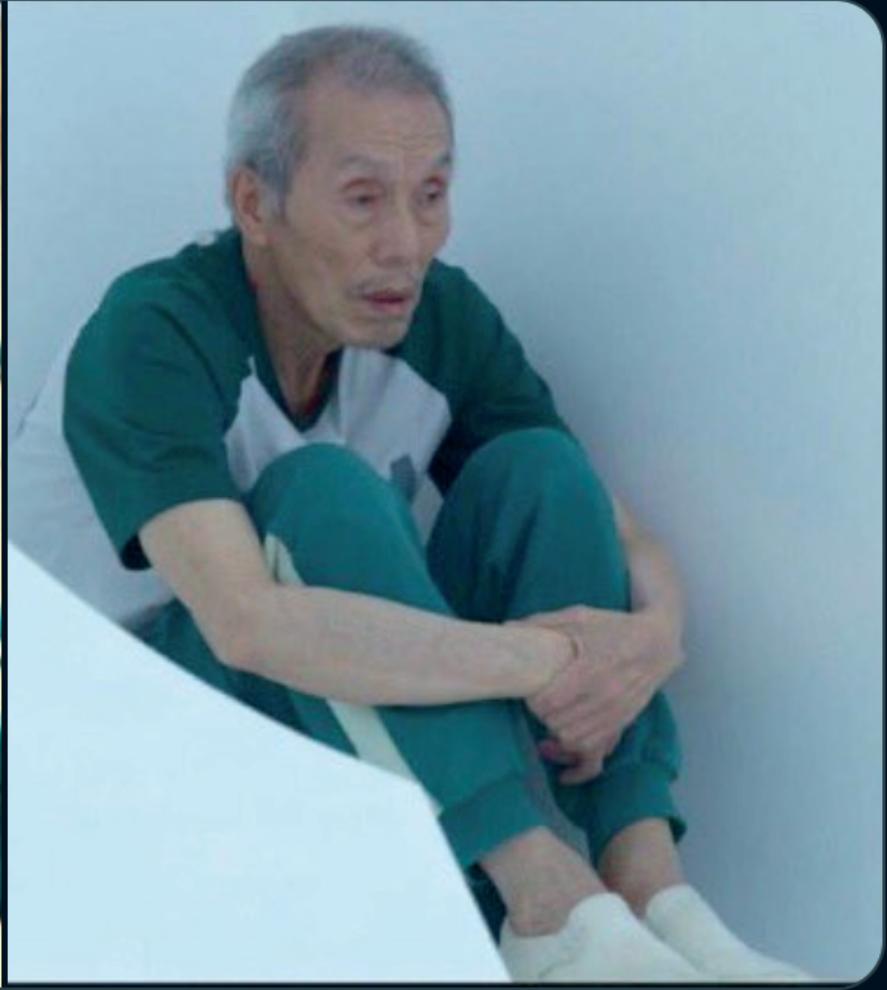
- Setting up Metamask
- Get some Ether
- Build it



ivan zhao
@zhaovan8

talking about web3

Writing solidity code



NOW WHAT?

Some Keywords to Know

Uint:- In Solidity, uint is actually an alias for uint256, a 256-bit unsigned integer.

Bool:- boolean variable can be declared by bool keyword

mapping:- Mappings are another way of storing organized data in Solidity.

Address:- In Ethereum, an address relates to a public key.

Event:- Events are a way for our contract to communicate that something happened on the blockchain to your app front-end, which can be 'listening' for certain events and take action when they happen.

Gas Fee:- In Solidity Gas is a fee which is required to conduct a transaction on the Ethereum blockchain. Gas prices are specified in gwei. Gwei is a denomination of the cryptocurrency Ether. Instead of saying that your gas costs 0.000000001 Ether, you can say your gas costs 1 gwei.

Linktree*

