How it started
Decentralized Finance
Builders
Scaling

**Sharding**
The idea is to split the global state of the blockchain system into several partitions called “shards.”

**State Channels**
We can use off-chain communication to perform almost instant transactions between users, and then commit the resulting state to the main chain.

**Sidechains**
It’s even more efficient to use a hierarchical structure of the network instead of just single-layer blockchains.
Stablecoins

Tether

Basis

Maker
Asset Exchange

- kyber.network
- 0x protocol
- EtherDelta
- AIRSWAP
Derivatives & Lending

\( \frac{\delta Y}{\delta X} \)

Dharma

Set Protocol
Interfaces

MyEtherWallet

Zeron
Contribute

- get hired
- get noticed
- research
- build
- start your own project
- receive grants
- discuss
Learn

Consensuses
What is the Byzantine generals problem? How to synchronize states of a distributed system?

Blockchains
How does Bitcoin work? What is Ethereum Virtual Machine? What is a smart contract?

Cryptography
How do hash functions work? What is a Merkle Tree? What are public and private keys? How do elliptic curves work?
Go deeper

Zero knowledge
What are STARKs, SNARKs, and bulletproofs?

Alternative Consensuses
Proof of Stake, dPos, TrueBit, and so on.

Scalability
Build

- Open Source
- Conferences
- Hackathons
Thank you!

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