**Week 1**

* 1. **Orientation**
* Helius – Web3 APIs. RPC aggregators.
* The Big Short
* Bitcoin mining is proof of work and is trying to find a specific string using brute force method.
* Miners have to mine constantly as the prefix keeps on changing. They have to find the nonce for a given specific prefix.
* Bitcoin nodes 🡪 Aggregating transactions from users, putting them in a block, and then finding nonce. This is the proof of work that bitcoin nodes do before broadcasting it to other nodes.
* We also include the hash of the previous block in finding the nonce.
* Conventionally, you would connect a wallet to your DApp. Now, you can connect a web-based wallet.
* Opinions market - betting on outcomes.