

## EDUCATION

### University of California Berkeley

August 2019 - May 2023

Bachelors in Computer Science

Berkeley, California

- Activities: Research and Governance at Blockchain at Berkeley, NLP research at the Neuroeconomics Lab
- Classes: Operating Systems, Computer Security, Databases, Computer Architecture, Algorithms, Compilers, Networking

## WORK EXPERIENCE

### Risk Harbor

March 2021 – Jan 2023

Software Engineer

Remote

- Wrote, tested, and deployed contracts to Ethereum, Arbitrum, Optimism, Aurora, and Fantom that held \$10m+ USD
- Led integrations with Aave, Compound, Gains Network, GMX, Liquity, MakerDAO, Mycelium, Stargate, Uniswap, Umami Finance, Yearn and many other DeFi protocols, programmatically checking them for hacks and default events.
- Created APIs using GraphQL to create schemas from internal data sources
- Researched and designed mechanisms for [Risk Harbor V1](#), the first risk marketplace that uses automated on-chain invariant detection to allow users to purchase insurance

### Coinbase

May 2022 – August 2022

Backend Software Engineering Intern

Remote

- Created the Coinbase NFT drop exchange contracts with solidity where users could buy and sell newly dropped NFTs through the Coinbase NFT interface.
- Created and implemented a spam filter for the Coinbase NFT comment section using Go, GraphDB, and Python, automating the flagging of spam comments.

### National Security Agency (NSA)

May 2021 – August 2021

Security Software Engineering Intern

Fort Meade, Maryland

- Constructed a Loki server to read logs from various kubernetes pods and relayed logs and metrics via Prometheus to the Grafana visualization dashboard
- Did other security related tasks (classified)

### Healthlevel

May 2019 – August 2019

Frontend Software Engineering Intern

Mountain View, California

- Built a web interface for radiologists to fill out protocols forms prior to CT scans with HTML, CSS, and Javascript
- Captured and saved all changes made by radiologists into a MySQL database and relayed this data to the frontend using a pre-built web service in Express.js

## PROJECTS

- [Kinesis Labs](#): Curve Fork on Evmos
  - Wrote a decentralized exchange with custom features like dynamic fees using React and solidity + hardhat.
  - Received \$125k grant from Tharsis and ~\$200k in liquidity mining incentives from Evmos Governance
  - Received \$600k+ USD in stablecoins deposited from 400+ users with over 11k transactions, 10.4k followers on twitter, 5.4k discord members
- [Stardust](#): Physically Settled P2P lending platform
  - Created a long-tail asset lending [platform](#) using Next.js, Solidity + Foundry, and graphql + the graph
  - Won 4k USD at ETH San Francisco + Evmos Prize
- [Wormhole Explorer](#): Wormhole bridge transaction simulator
  - Won 2.5k at CalHacks + Jump Crypto Prize
- [Dedrop](#): Decentralized Airdrop built using the Streamr Network
  - Won 1st place for the Data track at the [Penn Blockchain Hackathon](#)
- [vAR](#): Mobile App with goal line technology for soccer
  - Used tensorflow to train image classification models for goal detection + OpenCV object detection to track ball

## SKILLS

- **Programming Languages:** C, C++, Solidity, Python, Java, Javascript, Go
- **Technologies/Frameworks:** Git, React, Node, Docker, Grafana/Loki/Prometheus, Hardhat, GraphQL, Linux
- **Twitter threads:** [Aptos](#), [Evmos Thesis](#), [Nomad Bridge Exploit](#), [Saddle Finance Bug](#), [Evmos Airdrop](#),
- **Projects Consulted For:** [notfollows paradigm ctf team](#), [Muteswap](#), [Yeti Finance](#)