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EDUCATION

Cornell University

2019-2023

B.A. Computer Science

- Breadth track; math ext. specialization
- Select coursework: Algorithms, OS, Networks, Databases, Programming languages

EXPERIENCE

Nethermind

April-May 2021

MEV Engineer Intern

- Flashbots v0.1 in Nethermind C# Ethereum client
- Private cross-chain token recovery with Flashbots
- MEV infrastructure in Eth2 for ScalingEthereum

SELECT PET PROJECTS

Arbitrage bot

- Bot for monitoring and executing pure revenue opportunities such as liquidations for lending pools
- Price feeds, GraphQL subgraphs, flash loans and swaps, Express, Redis, worker threads, etc.

Risk markets protocol

- Protocol and interface for exchanging risk and taking directional positions in token markets, e.g. hedging leverage spirals and going long
- Gets liquidity and external yields from lending pools

Language formalization

- Executable semantics for a core subset of Solidity
- Definitions using the K framework

SKILL STACK

Common: Proficient in Python, Javascript, Solidity; some experience with Rust, Go, C, C#, OCaml, Java, Typescript

Tools: Linux, WSL, web, cloud, git, LaTeX

Web3: web3.js, ethers.js, Geth

Correctness: Some experience with K