Jackie Liu

Arb'ing all the way down.

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EDUCATION

Cornell University — 2019-2023
Computer Science
- Honors OOP
- Discrete Structures
- Functional Programming
- Algorithms
- Programming Languages and Logics
- Computational Mathematics
- Databases
- Computer Systems Organization
- Operating Systems
- Networks
- Machine learning

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

PROJECTS

Arbitrage bot
- Bot for monitoring and executing pure revenue opportunities such as liquidations for lending pools
- Uses price feeds, GraphQL subgraphs, flash loans and swaps, Express, Redis, and Node worker threads backend

Risk markets protocol
- Protocol and Bootstrap CSS 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

SKILLS

Frameworks: Web dev, Cloud, Web3
Languages: Proficient in: Python, Javascript, Solidity; Some experience with Rust, Go, C, C#, OCaml, Java, Typescript