

Jackie Liu

✉ jackie@liujjw.xyz  github.com/liujjw  liujjw.xyz ⁰

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

SAMPLE OF PROJECTS

Arbitrage bot ¹

- 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

SKILLS

Frameworks: Linux, WSL, web, cloud, web3

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

⁰Blue text (boxes) are links!

¹Public repo on request