Jackie Liu • 刘嘉伟

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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, Networks, Machine learning

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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

MEV bot
- Distributed objects/microservices for monitoring and executing pure revenue opportunities such as liquidations for lending pools
- Express, Redis, Bull JQ, clusters and workers, GraphQL, Docker, AWS, Erigon, Foundry, flash loans and swaps, price feeds

Risk markets protocol
- Protocol and interface for exchanging risk and taking directional positions in token markets, e.g. hedging leverage spirals and going long
- React and Bootstrap CSS interface, 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, Erigon, Foundry
Correctness: Some experience with K