

# Jackie Liu

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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

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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

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## SAMPLE OF 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

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## SKILLS

*Frameworks:* Linux, WSL, web, cloud, web3

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

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<sup>0</sup>Blue text (boxes) are links!