# 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

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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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**PET 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

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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