

# Jackie Liu • 刘嘉伟

📞 +1 (971) 344-9782    ✉ jackie@liujjw.xyz    🔗 <https://liujjw.xyz>

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## EDUCATION

*Cornell University*

Dec 2023

B.A. Computer Science

- Breadth track with math specialization
  - Select coursework: Algorithms, OS, Networks, Databases, Programming languages, Networks, Machine learning
  - Activities and organizations: ACSU, eSports, Film, Shogi
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## EXPERIENCE

*Nethermind*

May 2021

Software Engineer Intern, MEV Research

- 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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## 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
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## SKILL STACK

**Common:** Proficient in Python, Javascript/Node.js, Solidity; some experience with Rust, Go, C, C#, OCaml, Java, Typescript

**Tools:** Linux, WSL, AWS, git, LaTeX, Docker

**Web:** React, HTML, CSS, Bootstrap, Twelve-Factor Apps, RESTful APIs

**Web3:** web3.js, ethers.js, Geth, Erigon, Foundry, DeFi, HardHat, Onchain analysis

**Correctness:** Some experience with K

**ML:** numpy, scikit-learn, Jupyter