

Jackie Liu • 刘嘉伟

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EDUCATION	Cornell University	(expected) Aug 2019-May 2024
	(expected) B.A. Computer Science, math specialization <ul style="list-style-type: none">Coursework: Algorithms, OS, Databases, Programming languages, Machine learningActivities and organizations: eSports, IB finance club, Cornell Blockchain	
WORK EXPERIENCE	Retail Business Services, Ahold Delhaize	(expected) January-June 2023
	Software Engineer Co-op <ul style="list-style-type: none">Work in full stack web development for omnichannel retail	
	Nethermind	April-May 2021
	Software Engineer Intern, MEV Research <ul style="list-style-type: none">Worked on Flashbots v0.1 in Nethermind C# Ethereum client and cross-chain token recoveryCollaborated with Flashbots organization for MEV infrastructure in Eth2 for ScalingEthereum	
OTHER EXPERIENCE	Undergraduate researcher	Oct 2022
	<ul style="list-style-type: none">Develop Rust OS targeting AArch64 architecture, without a C or C++ runtime, based on TheseusOSAdvised by Professor Robbert van Renesse	
	FTC Robotics, Lead programmer, autonomous control	May 2019
SKILL STACK	<ul style="list-style-type: none">Common: Proficient in Python, Javascript/Node.js, Solidity; some experience with Rust, Go, C, C#, OCaml, Java, TypescriptTools: Linux, WSL, AWS, git, LaTeX, DockerWeb: HTML, CSS, Twelve-Factor and CRUD AppsWeb3: web3.js, ethers.js, Geth, Erigon, Foundry, DeFi, HardHat, Onchain analysisCorrectness: Some experience with KML: numpy, scikit-learn, Jupyter	
SELECT PET PROJECTS	MEV arbitrage bot <ul style="list-style-type: none">Microservices for monitoring and executing pure revenue opportunities such as liquidations for lending poolsExpress, Redis, Bull job queue, clusters and workers, GraphQL, Docker, AWS, Erigon, Foundry, flash loans and swaps, price feeds	
	Risk markets protocol <ul style="list-style-type: none">Protocol and interface for exchanging risk and taking directional positions in token markets, e.g. hedging leverage spirals and going longReact and Bootstrap CSS interface, liquidity and external yields from lending pools	
	Language formalization <ul style="list-style-type: none">Provable executable semantics for a core subset of SolidityDefinitions using the K framework for a stack-based VM	