Cameron Kruger

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Low-latency focused systems software engineer. Concentrated on automation, distributed computing, and trading execution systems. Bringing reliability to nanosecond-level programs.

EDUCATION

Bachelor of Science (B.S.) - Computer Science May 2022
George Mason University, Fairfax, Virginia

- Dean's List Fall 2021, GPA: 3.74
- Relevant coursework: Operating Systems, Data Mining, Networking, Databases, OOP
- PatriotHacks 2021 hackathon winner - headed a collaborative project coding a Python based cryptocurrency paper trading web app with MongoDB and hosted on Heroku

EXPERIENCE

Trading Engineer August 2022 – Current
IMC Trading, Chicago, IL

- Responsible for ultra-low-latency system robustness and performance, primarily in the ETF and Delta One space. Active FINRA broker certification (Series 57/SIE)
- Modernizing Python-based company trading engineering toolkits from distributed scripts into a unified, global platform with simplified deployment through Kubernetes
- Optimized and automated operationally intensive intra-day trading strategy with outsized PnL impact on desk; improved process execution speed by ~%65
- Identified and optimized multicast feed channels in Java components, improving latency

Software Engineer and Research Intern December 2021 – March 2022
Nethermind, Remote

- Worked closely with Nethermind and other partners in developing open-source software for the Ethereum ecosystem
- Wrote smart contract security monitoring agents in Typescript for DeFi protocols
- Contributed to the launch of a Starkware L2/zkRollup full client written in Go
- Studied cutting-edge research in the smart contract, MEV, and DeFi space

Software Engineer Internship May 2021 – August 2021
Walmart Global Tech, Bentonville, Arkansas/Remote

- Created an API in Go that performed concurrent data analysis and JSON processing, delivered to a user-friendly front end with the use of several other APIs and MongoDB
- Eliminated costly end user support chore for developers, saving hours each week for support staff on call
- Collaborated with an intern team responsible for building a full stack web application, with a microservices architecture that assists suppliers and grocery quality control associates to deliver the best supply of produce to Walmart's customers.
- Planned, developed, and shipped a production web application within 8 weeks

SKILLS

Languages: Python, Java, Golang, Modern C, Solidity, Haskell, x86 Assembly
Databases & Libraries: MongoDB, Oracle SQL, Bazel, Maven, Flask, Django
Technologies: Linux, Docker, Gitlab, Kubernetes, multicast networking, Ethereum/EVM
Interests: Decentralized computing, Cryptofinance, climbing, motorcycles, skiing