

# Cameron Kruger

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Experienced software engineer specializing in low-latency and distributed trading systems, with expertise in Python, Java, Rust, and Go. Focused on increasing trading strategy success through automation and system optimization; while delivering highly performant and scalable applications in competitive, fast-paced industries.

## EDUCATION

### **Bachelor of Science (B.S.) - Computer Science** May 2022

*George Mason University, Fairfax, Virginia*

- Honors: Magna cum laude

## EXPERIENCE

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

- Responsible for ultra-low-latency system uptime and performance; primarily in the ETF and Delta One space. Active FINRA broker certification (Series 57/SIE)
- Overhauled Java based multicast external valuation system from static configuration to dynamic service discovery with Apache ZooKeeper, reducing the amount of noisy channels assigned to execution trading applications by an average of ~12 channels per engine
- Proactively created tools and resources for both developers (log file parser written in Rust, operational issue tracker w/ Flask) and traders (Grafana dashboards, configuration auditor)
- Automated operationally intensive intra-day strategy with outsized PnL impact on desk; improved process execution speed by ~%65 and eliminated ~3 high SEV incidents/month

### **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, Rust, Golang, Bash, SQL, YAML

Technologies: Apache Kafka, MongoDB, Linux, Flask, Gitlab, Kubernetes, Ethereum/EVM

Interests: Decentralized computing, Cryptofinance, climbing, motorcycles, skiing