

Pouria Amini

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EDUCATION

University of Waterloo | Bachelor of Software Engineering

Sep. 2021 - Apr. 2025

Relevant courses: Algorithms, Data Structures, Operating Systems, Databases, Software Engineering Principles

EXPERIENCE

Intuit | Software Engineer Intern

Toronto, ON | Sep. 2023 - Dec. 2023

- Increased TurboTax development velocity by 40% through refactoring page navigation logic with TypeScript/React, enabling a **2-week earlier readiness** of the product for market release to **5M+ users**.
- Developed a Python CLI with LRU caching to optimize Java artifact builds, reducing CI/CD build time by 67% and **eliminating 5 hours** of weekly wait time for **25 developers**.
- Conducted a performance analysis with Linux perf and BPF to identify potential request latency slowdowns before migration, saved **100+ engineering hours** for the release of a **container-based platform**.

Xe | Software Developer Intern

Newmarket, ON | Jan. 2023 - Apr. 2023

- Accelerated onboarding by 5x for **400+ new users** monthly by optimizing identity (KYC) verification with a Plaid integration using AWS Kinesis and webhooks, resulting in a **\$90k+ annual revenue increase**.
- Engineered a traffic mirroring mechanism on Kubernetes using Istio for real-time A/B testing and canary releases, resulting in **550+ additional conversions** annually for new onboarding incentives.
- Optimized the consensus protocol of a distributed ledger system in C++ for near real-time settlements, reducing transaction confirmation time by 36% for over **10,000 daily transactions**.

Inossem | Java Developer Intern

Montreal, QC | May 2022 - Aug. 2022

- Optimized order fulfillment across 6 warehouses by developing shortest-path algorithms with dynamic route adjustments using Java/WebSockets to reduce operational costs, saving **\$130k+ annually**.
- **Reduced CPU time by 34%** in microservices in Azure by converting inter-service communication from REST to gRPC over mTLS, lowering average response time from **500ms to 70ms**.
- Developed Spring microservices to monitor and report warehouse operations and track **20,000+ SKUs** for real-time inventory visibility, **reducing 25+ stockout incidents** per month and preventing \$10k in lost revenue.

PROJECTS

Dislog | Distributed Write-ahead Logging System

[\(GitHub\)](#)

- Built a clone of Apache Kafka in Go using a **distributed consensus algorithm** for leader election and replication.
- Optimized I/O performance through memory-mapping files and a buffer pool to **reduce disk I/O overhead**.
- Implemented custom Kubernetes controllers to **automate the scaling** of load balancers based on pod count.

BugTracker | Simplified Jira for simple projects

[\(GitHub\)](#)

- Developed a full-stack web application using React, JavaScript, and Java to track and manage software bugs.
- Deployed the application using AWS Elastic Beanstalk for **auto-scaling** and **load balancing** during outages.

TRex | Translation Glasses

[\(GitHub\)](#)

- Designed and implemented a **real-time language translation system** on a Raspberry Pi, utilizing C for hardware control, a lightweight machine learning mode with TensorFlow Lite in Python and AR libraries.

ACHIEVEMENTS

[Canadian Computing Competition](#) (Senior Division), **top 3%** of 3,200 contestants

2021

[Facebook HackerCup](#), **top 12.5% globally** of 35,00 contestants

2021

SKILLS

Languages & Frameworks: TypeScript, Python, Java, C++, C, Go, React, Spring, SQL, HTML, CSS, Shell

Tools & Platforms: Linux, AWS, Kubernetes, Docker, PostgreSQL, Kafka, Spark, MongoDB, Git