

# SAMUEL MOHR

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## SUMMARY

Full stack software engineer with 4+ years of industry development experience. Excellent communication skills, strong experience collaboratively architecting solutions. Detail-oriented with high standards for code quality, design, and performance. Proficient in Rust, TypeScript, and Python, knowledge of multiple frontend/backend web frameworks.

## WORK EXPERIENCE

### **Amazon AWS: Software Development Engineer I**, Seattle, WA

*Jan 2022 - Present*

- Contributed to AWS Lambda's SnapStart, a feature to reduce cold-start time for serverless invokes
- Developed FuseFS, a Rust-based user-space filesystem, along with TypeScript/Kotlin/Go microservices
- Architected full CD, continuous end-to-end canary latency testing system for full AWS Lambda invoke stack
- Automated visibility on end-to-end Lambda latency drops to within 15 minutes of regression introduction
- Improved P99 cold start invoke latency by 20% by proactively fetching more data for all Lambda functions
- Acted as rotating oncall for mitigating team service issues and deployment for major AWS Lambda services
- Mentored new/existing team members on Rust best practices, updated multiple services to modern standards

### **ABB: Research and Development Engineer**, Atlanta, GA

*Mar 2020 - Dec 2021*

- Prototyped and developed the Common Data Layer, a backend-agnostic storage system in Rust
- Designed microservices to abstract over myriad databases, including PostgreSQL, Sled, Apache Druid
- Wrote proposals as RFC's, moderated discussion, and implemented proposed features into services
- Improved throughput of internal storage system more than 20 fold by transitioning to async behavior
- Leveraged various language-agnostic tools for inter-service communication, e.g. Kafka, gRPC, REST, GraphQL
- Interviewed over 20 candidates for Rust, Golang, and React.JS positions

### **NCR: Full-Stack Developer**, Atlanta, GA

*July 2019 - March 2020*

- Added and tested new features for both Spring Boot JSON API and Angular/TypeScript with RxJS website
- Reworked over half of a 3 team codebase in 1.5 months to add unified state management to frontend
- Audited documentation and educated current/new team members on how to maintain code integrity

### **Ace Industries: Part-Time Full-Stack Developer**, Atlanta, GA

*January 2019 - May 2019*

- Developed React Native application that unified multiple outdated applications to streamline user experience
- Incorporated Redux (Offline) to manage state immutably and to allow users to work without internet connection
- Migrated app to Material framework to make code more concise and provide uniform, reactive UX
- Improved design of Python Django JSON API that coordinated Amazon S3 data and 50+ table database

## SKILLS

**Programming Languages:** Rust, Python, TypeScript, Go, Crystal, Java, Elm, Zig, C, Haskell

**Development Tooling:** Travis CI, Kubernetes, Docker, Git (GitHub and Bitbucket), Jira

**Frameworks:** React, Angular, Svelte, Axum, Actix Web, Warp, Yew, Bulma CSS, Spring Boot

## EDUCATION

### **Georgia Institute of Technology**, Atlanta, GA

- **Master of Science in Computer Science**

*December 2023*

Focused in Computing Systems

- **Bachelor of Science in Computer Science**, Highest Honors

*May 2019*

Focused in Systems/Architecture and Intelligence

Notable Coursework: Compilers and Interpreters, Operating Systems, Systems and Networks

## PERSONAL PROJECTS

### **Georgia Tech Glee Club Website**

- Rewrote 32,000 lines of PHP site into 17,000 lines of Rust GraphQL API and Svelte/TS frontend
- Managed grades, members, repertoire, events, dues, etc. for a group of 50+ members
- Backend deployment requirements: statically compiled binary, fast startup time, run through CGI, fast responses

## INTERESTS

- Designed and sold over 50 sub-40% ergonomic keyboards to reduce typing strain at smoresboards.com
- Arranged and performed multiple a cappella songs with the Georgia Tech choirs (Glee Club, Chamber Choir, etc.)