Miles Moran

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About Me

I am a software engineer with a strong focus on backend systems, distributed workflows, and developer tooling.

I am very interested in gaining deeper insights into functional programming, type systems, and lower-level languages.

Education

LaunchCode, Certificate Program in Software Engineering – Saint Louis, Missouri   Jan 2017 – June 2017
A coding bootcamp focused on the fundamentals of software engineering.
• Learned foundational concepts of programming, algorithms, and software development
• Gained hands-on experience with Python and Java through structured coursework and projects

Experience

Software Engineer, KarmaCheck – San Francisco, California (Remote)   June 2021 – present
Working on large-scale, high-performance backend systems for background screening, data orchestration, and automation.
• Designed and implemented distributed workflows using Temporal, reducing processing latency and improving scalability.
• Developed event-driven microservices using TypeScript, AWS EventBridge, DynamoDB, and MySQL.
• Designed and implemented a clinic recommendation algorithm, leveraging geospatial data, business rules, and patient preferences to optimize provider selection.
• Automated end-to-end workflows using Playwright, reducing manual effort in testing and data extraction for web-based processes.
• Automated deployment pipelines using GitHub Actions, Docker, and 'Serverless Framework'
• Integrated queue-based asynchronous processing using AWS SQS and Lambda to handle thousands of background checks concurrently.

Software Engineer, Ellem Laboratories – Saint Louis, Missouri   Sept 2019 – Aug 2020
Built and maintained applications for a small consulting startup
• Developed web applications with Python and Coldfusion.

QDivision Apprentice (Internship), UniGroup – Saint Louis, Missouri   May 2019 – Sept 2019
Learned and applied core computer science concepts while developing internal software tools.
• Developed small applications using JavaScript and Java, learning best practices in software design.
• Gained hands-on experience in data structures, algorithms, and object-oriented programming.

Skills

Programming: Proficient in JavaScript/TypeScript; experience with Java, Python, Lua, and Haskell

Systems & DevOps: AWS (Lambda, SQS, DynamoDB, RDS, CDK, ECS, CloudWatch), Serverless Framework, Temporal

Testing: Playwright, Vitest

Databases: MySQL, DynamoDB

Languages: English (fluent), Spanish (conversational)