

Alex Williamson

recruiting@alexwilliamson.codes

WORK EXPERIENCE

Cox Automotive

Atlanta, Georgia

Software Engineer II

March 2024 – Present

- Built and maintained Snowflake automation and governance microservices on Cox Automotive's Data Platform using Spring Boot, AWS, Terraform, and Python
- Created an AI troubleshooting Slack bot leveraging RAG with an indexed knowledge base of internal GitHub repositories and wikis, integrated with a custom MCP server deployed via Bedrock AgentCore for real-time CloudWatch log querying to accelerate incident triage
- Led development of a temporary Snowflake role access workflow (scheduled + on-demand) including break-glass controls, duration-based approvals, and end-to-end auditing with alerting/notifications to support governed access across the Data Marketplace
- Built an event-driven data classification microservice that automatically classified new and updated Snowflake objects in response to DDL changes using Snowflake's native classification model
- Automated Snowflake integration with Monte Carlo via a real-time sync mechanism, reducing manual setup and improving data observability adoption
- Led implementation of Snowflake network rule enforcement for service accounts, requiring approved network rules for connectivity to restrict access by IP to strengthen security controls

FedEx Services

Remote

Full Stack Developer II

February 2022 – March 2024

- Led development for two full-stack applications, an incident tracking platform and a server dashboard, leveraging modern frameworks and libraries such as Spring Boot, React, and Angular
- Developed search feature for incident reporting app allowing users to easily find past entries and build custom reports
- Optimized CSS package usage by removing redundant styling dependencies and streamlining CSS/SCSS classes, resulting in a 300% reduction in compile time and a 75% reduction in overall CSS/SCSS file size
- Built a centralized crisis status page using Angular that served as a single source of truth during high-severity incidents, replacing ad-hoc email chains and automatically notifying stakeholders when updates were made by authorized users

SKILLS, TECHNOLOGIES, & INTERESTS

Programming Languages: Java, Python, TypeScript

Frameworks and Libraries: Spring Boot, React, Angular, JUnit, Mockito

Technologies: Terraform, GitHub Actions, Jenkins, AWS Lambda, AWS Cloudwatch

Database: Snowflake, MySQL, PostgreSQL

Interests: Backpacking, Guitar, Disc Golf, Chess, Piano, Baking

EDUCATION

The University of Georgia

Athens, Georgia

Bachelor of Science in Biochemical Engineering

Georgia Institute of Technology

Atlanta, Georgia

Master of Science in Computer Science