

# Amir Allen

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• <https://amiricodes.app>

Dynamic Software Engineer with experience building and scaling AI and API driven systems and workflows, along with cloud infrastructure. Proven track record improving system performance, reliability, and deployment velocity using Java, Python, AWS/Azure, and modern CI/CD practices. Strong background in distributed systems, API design, and production observability.

## Professional Experience

**AUGUST 2025 – NOVEMBER 2025**

**Software Engineer (Independent) | Austin, Texas**

- Optimized AI agent execution pipelines by parallelizing LLM calls and task orchestration, reducing end-to-end workflow runtimes by 85% (from ~5 minutes to under 50 seconds).
- Designed and deployed scalable, fault-tolerant AI agents using Python, FastAPI, and Temporal, improving reliability of long-running, multi-step workflows by 30%.
- Implemented observability (structured logging & metrics) and modular service architecture, accelerating feature development by 40% and reducing LLM-related troubleshooting time by 40%.

**JANUARY 2023 – AUGUST 2024**

**Software Engineer | General Motors | Austin, Texas**

- Designed and implemented Java (Spring Boot) RESTful services and React.js frontend features for distributed enterprise applications, improving API performance by ~20% while supporting 5+ production systems through shared, reusable service components.
- Co-owned modernization of 2 customer-facing services and contributed to 3 additional migrations, transitioning applications from Oracle WebLogic to Microsoft Azure using Docker-containerized deployments, and reducing production downtime by 35%.
- Integrated Kafka-based event streaming into migrated applications, improving throughput and reducing inter-service dependency while monitoring system health and performance post-migration using Grafana dashboards.
- Collaborated within a 12-person Agile team to design, implement, and ship new features across the development lifecycle, increasing release velocity by 25% through effective sprint planning, peer code reviews, and paired programming, while using Jira and Confluence for tracking and documenting decisions.

**JUNE 2022 – SEPTEMBER 2022**

**Software Engineer Intern | General Motors | Atlanta, Georgia**

- Designed and implemented Java-based test automation frameworks using Spring Boot to support REST API and integration testing, reducing test execution time by 30% and enabling adoption across multiple teams.
- Built RESTful test services to replace legacy RobotFramework suites, improving code maintainability and reducing flaky test failures by 25%.
- Automated CI/CD pipelines using Azure DevOps, cutting release cycle time by 40% and boosting deployment reliability.

**JUNE 2021 – SEPTEMBER 2021**

**Software Engineer Intern | Amazon | Austin, Texas**

- Engineered scalable AWS infrastructure (EC2, CloudWatch), improving system uptime by 20% and supporting business-critical workloads.
- Automated system monitoring and deployments using Terraform and CI/CD pipelines, reducing deployment errors by 40% across production environments.
- Developed cross-platform automation scripts to aggregate compliance data, cutting audit processing time from 2 hours to under 10 minutes for batches of 100 devices.

## Personal Projects

**AmiriCodes Platform | amiricodes.app | Next.js, TypeScript, Tailwind, Vercel**

- Designed and deployed a personal engineering platform showcasing technical articles, portfolio projects, and production web applications.
- Built responsive React/Next.js UI components and dynamic routing to support scalable content delivery.
- Deployed production application on Vercel with GitHub-based CI/CD workflows.

## Key Skills

Languages: Java, Python, C++, JavaScript, TypeScript

Frontend: React.js, UI/UX Fundamentals

Backend: Spring Boot, FastAPI, Kafka, Node.js, Express.js

Databases: PostgreSQL, MongoDB, SQL Server

Cloud & DevOps: Azure, Azure DevOps, Docker, AWS, CI/CD, Grafana

Concepts: Debugging, Testing, API Design, Agile

## Education

**JANUARY 2021 – DECEMBER 2022**

B.S. Natural Science & Technology w/ Minor in Computer Science | University of North Georgia | Dahlonega, Georgia