

Kameron Allen

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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 – CURRENT

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%.

NOVEMBER 2024 – JANUARY 2025

Contract Systems Engineer | 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.

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 and reducing production downtime by 35%.
- 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.

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.

Key Skills

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

Frontend: React.js, UI/UX Fundamentals

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

Databases: PostgreSQL, MongoDB, SQL Server

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

Concepts: Debugging, Testing, API Design, Agile

Education

JANUARY 2021 – DECEMBER 2022

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

JUNE 2014 – MAY 2019

Forensic Chemistry | Hampton University | Hampton, Virginia