

Kameron Allen

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Dynamic and goal-oriented software developer looking to leverage my skills in full-stack development to contribute to scalable, secure, & user-focused web applications. I am an eager and curious learner, who embraces complex challenges with modern solutions. Skilled in frontend development and API design & integration, with a knack for teamwork & problem solving, I am confident that I would be a valued addition to any organization.

Experience

AUGUST 2025 - CURRENT

Freelance Software Engineer | Austin, Texas

Reworked AI agent execution logic to enable parallel LLM calls, reducing workflow runtimes from around 5 minutes to less than 50 seconds. Built and deployed scalable AI agents with Python & FastAPI, supporting API-driven interaction for enterprise clients. Engineered fault-tolerant workflow orchestration with Temporal, improving reliability of long-running agent tasks. Integrated Langfuse observability for detailed tracing and debugging of LLM pipelines, cutting troubleshooting time by 40%. Designed a modular system architecture for AI agent communication, task handling, and third-party API integrations, accelerating feature development.

NOVEMBER 2024 – JANUARY 2025

Contract Systems Engineer | Amazon | Austin, Texas

Design and implemented scalable infrastructure solutions on AWS. Partnered with cross-functional teams to deliver reliable systems aligned with business needs. Automated system monitoring and deployments using CI/CD pipelines and infrastructure-as-a-code (Terraform). Diagnosed and resolved complex issues in distributed systems, storage, and networking with minimal downtime.

JANUARY 2023 – AUGUST 2024

Software Engineer | General Motors | Austin, Texas

Developed and maintained Java-based REST APIs using Spring Boot, enabling seamless integration across Fleet and Field applications that drove \$26 billion in revenue. Modernized 5 customer-facing applications, migrating from Oracle WebLogic (Java EE stack) to Azure Cloud, ensuring scalability and high availability for enterprise systems. Implemented reusable backend services, improving maintainability and reducing code duplication. Integrated SQL databases with Java services using JDBC/Hibernate, optimizing queries and ensuring transactional consistency across high-volume systems. Built unit and integration tests with JUnit and Mockito, increasing code coverage and reducing production defects by catching issues early in CI/CD pipelines. Collaborated with a 12-member Agile squad, participating in sprint planning, peer reviews, and paired programming to deliver features on time with high code quality. Enhanced system reliability by automating Java service deployments through Azure DevOps CI/CD pipelines, reducing the release cycle time and improving release stability. Contributed to full-stack development integrating Java REST APIs with React.js front-end components, ensuring smooth user experiences and cross-browser compatibility. Performed debugging and root cause analysis on Java applications, resolving any critical defects that impacted time and performance.

JUNE 2022 – SEPTEMBER 2022

Software Engineer Intern | General Motors | Atlanta, Georgia

Designed and implemented Java-based automation frameworks, complete with working API examples and reusable components that standardized testing across teams. Automated regression testing to expand coverage and reduce manual QA effort. Migrated legacy RobotFramework test suites to Java REST API based solutions, ensuring scalability and maintainability. Integrated Elasticsearch to enhance backend test automation and leveraged JSON serialization with builder patterns to streamline complex object handling.

Skills

Programming: Java, Python, C++ JavaScript

Frontend: React.js, UI/UX Design, Browser Optimization

Backend: API Generation & Integration, SQL Server, PostgreSQL, MySQL

Tools: Azure DevOps, Maven, GitHub, Linux, PowerShell, CI/CD Pipeline Automation, AI/ML

Problem Solving & QA: Debugging, Testing, Problem Solving, Agile Development

Education

JANUARY 2021 – DECEMBER 2022

Natural Science & Technology | University of North Georgia | Dahlonega, Georgia

JUNE 2014 – MAY 2019

Forensic Chemistry | Hampton University | Hampton, Virginia