

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 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 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. Ensured systems met security and compliance requirements through IAM policy, data encryption, and audit support.

JANUARY 2023 – AUGUST 2024

Software Engineer | General Motors | Austin, Texas

Supported Fleet & Field Applications, contributing to digital platforms driving \$26 billion in revenue, ensuring scalability and reliability for high-volume transactional systems. Collaborated with a 12-member Agile squad to migrate and modernize 5 internal customer-facing applications from Oracle WebLogic to Azure Cloud. Worked closely with product managers & business units to understand and translate customer requirements and requests into implemented functionality. Designed and implemented REST APIs and reusable front-end components in React.js, optimizing cross-browser performance and responsiveness. Translated Figma designs into responsive UIs, applying UI/UX design principles to improve task efficiency and user experience. Developed test automation pipelines in Azure DevOps for both UI & API, enabling CI/CD integration and reducing release cycle times. Built and maintained Power BI dashboards to monitor KPIs, automate reporting, and proactively identify business trends. Created and managed smoke/regression testing pipelines, resolving critical defects that threaten application stability early and improving release stability. Conducted peer code reviews, debugging, and root cause analysis, addressing critical defects threatening application stability.

JUNE 2022 – SEPTEMBER 2022

Software Engineer Intern | General Motors | Atlanta, Georgia

Automated regression testing with Python-based frameworks, reducing manual QA effort and improving test coverage. Built foundational automation frameworks in Java with working API examples, standardizing testing across teams. Integrated Elasticsearch for backend automation and applied JSON serialization and builder patterns for 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, PowerShell, CI/CD Pipeline Automation

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

Education

JANUARY 2021 – DECEMBER 2022

B.S. Natural Science & Technology | University of North Georgia | Dahlonega, Georgia

JUNE 2014 – MAY 2019

B.S. Forensic Chemistry | Hampton University | Hampton, Virginia