

Logan Kitchen

Software Engineer | Cottonwood, AZ 86326 | 928-451-1582 | logan.d.kitchen@gmail.com | github.com/xTumulus | linkedin.com/in/logan-kitchen-se

Objective

Staff Software Engineer with 8+ years building scalable back-end systems, APIs, and data processing pipelines across healthcare, defense, and AI domains. Experienced with microservice architecture, PostgreSQL, AWS, Docker, and Kubernetes. I bring strong engineering discipline, a track record of mentorship, and a habit of turning ambiguous technical problems into clean, maintainable systems. I've worked with DOD, CJIS, and HIPAA-regulated data and thrive in high-growth, mission-driven environments.

Skills

Languages: Java, TypeScript, JavaScript, Python, HTML, CSS/Tailwind, SQL

Frameworks & Libraries: React, Next.js, Angular, Vue.js, Flask, FastAPI, Express, PyMongo, Pydantic, Maven/Gradle

Databases: PostgreSQL, MongoDB, SQL Server (schema design, query tuning, Alembic migrations)

Cloud & DevOps: AWS, GCP, Docker, Kubernetes, Jenkins, CI/CD

Tools & Platforms: Git, Jira, Confluence, Atlassian, Azure DevOps, OpenDashboard

Methodology: Agile, Scrum, Project Management, Requirements Gathering, Design Patterns, Microservices Architecture

AI / LLM: Anthropic API, open source models, LLM evaluation harness, prompt engineering, agentic AI systems

Experience

AI Engineer | Entysis 360 | April 2025 – Present

- Designed and implemented an LLM-based data validation system to identify exceptions and reduce manual audit overhead; delivered 40 custom exception validators ahead of schedule (target: end of year, completed in August).
- Built an evaluation harness to benchmark LLM candidates across accuracy, latency, and token cost; guided model selection and optimized system prompts for token efficiency while meeting all required accuracy metrics.
- Worked on a 5-microservice architecture with Python/FastAPI back-end services, Next.js front end, PostgreSQL database with Alembic migrations, and Pydantic validation; integrated with numerous third-party external microservices.
- Deployed via Jenkins → AWS Lambda → Kubernetes → Spinnaker/Helm pipeline; managed environment configuration and secrets through AWS Secrets Manager.
- Served as on-call engineer for production deployments; triaged and resolved live production issues and monitored cross-service logs via OpenDashboard.
- Partnered closely with a Subject Matter Expert team for requirements gathering, production verification, and deployment planning, translating business needs directly into technical specifications.

Senior Software Engineer (Contracting) | Self-Employed | Oct 2025 – Present

- Full-stack website design and redesign for a materials manufacturing company, equipment retailer, and other small businesses; set up hosting on AWS and GCP.
- Built an on-site offline LLM using the DeepSeek open-source model to support project management and development tasks without exposing data to external AI services.
- Created an agentic AI team using the Anthropic API with a product owner agent and multiple developer agents, coordinating development efforts for significantly increased delivery efficiency.

Senior Software Engineer | Janus Research | Oct 2024 – Oct 2025

- Rebuilt a severely outdated application using React/Next.js, migrated Python 2 to 3, and restructured the entire MongoDB schema; resulting application met DOD security requirements and was significantly faster and more maintainable with a fraction of the original code.
- Designed and stood up a robust dev environment from scratch with separate dev, test, and production modes using Node.js, Python venv, pnpm, dependency scripts, and a full dummy database for end-to-end testing before delivery.
- Completed DOD security certifications and built the application to DoD specifications to operate with classified data in secure facilities; able to obtain clearances if needed.
- Created a direct installation script and a Docker image that passed DOD screening and were transmitted over secure channels.

- Mentored two team members who struggled with HTTPS between front and back end; both became independently capable of connecting to and modifying Python API endpoints.
- Selected to test a secure internal LLM AI agent due to the sensitivity of data handled; could not use public LLM services such as ChatGPT.

Lead Software Engineer | Spectrum Healthcare Group | Aug 2021 – Oct 2024

- Consolidated data from 5 separate manual systems into a single SQL database and Java API connected to a company-wide EHR and departmental Angular/Node.js SPAs; drastically reduced team workload and improved billing accuracy across the company.
- Integrated the consolidated data platform with the state crisis call center and Regional Behavioral Health Authority APIs over HTTPS, enabling real-time automatic updates between systems and freeing healthcare providers to spend more time with patients.
- Replaced post-it-note IT tracking with Jira and Confluence; automated ticket creation for IT calls and emails, generated reports for the CEO, and demonstrated a 50% increase in IT staff productivity in the first month, with continued gains.
- Migrated applications from individual MS Server VMs in GCP to a small set of headless Linux servers, reducing annual cloud costs by thousands of dollars and improving system performance by orders of magnitude.

Java Developer | Motorola Solutions | Sept 2018 – Aug 2021

- Developed a code generation template for criminal justice data translation classes that automated ~90% of each new class; completed a backlog originally estimated at one year of work in 3 months.
- Worked on enterprise-scale Java back-end systems with complex database design, REST API standards, and Java threading and concurrency to handle large-scale data processing across federal, state, and local systems.
- Completed certifications in CJIS Security, Cybersecurity Fundamentals, Java Security, and Records Management.

Software Engineer / Scrum Master | Missionary Training Center | Oct 2016 – Sept 2018

- Streamlined scrum processes and shifted team culture toward shared ownership; improved sprint completion rates from ~50% to 90–100%.
- Led requirements gathering and demo sessions with department directors to build a unified web application integrating scheduling, travel, training, and medical systems; stakeholders consistently praised the outcome.

Education

BS in Computer Science, Emphasis: Software Engineering | Brigham Young University | 2024

Provo, UT | Core coursework in algorithms, language theory, software design, and project management (C++, C, Java, Python, JavaScript).

Capstone: Engineered a proof-of-concept digital currency application for myCHIPS (mychips.org) as part of a team project.

Certifications

- CJIS Security, Cybersecurity Fundamentals, Java Security, Records Management (Motorola Solutions)
- DOD Security Certification (Janus Research)