

Alex Kuligowski

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Professional Experience:

Five Star Technology Solutions

Software Engineer, Remote

October 2022 - November 2025

- Maintained and refactored core education platform modules serving ~250 school districts, modernizing legacy PHP codebases and optimizing API data processing pipelines for performance and reliability.
- Improved sprint completion rate from 60% to 90% and reduced bug resolution time by 70% by aligning teams on SDLC standards, implementing structured escalation workflows, and establishing accountability workflows.
- Evaluated multiple test automation approaches across technical and non-technical teams, ultimately introducing Playwright as the end-to-end testing standard for all new development.

Stryker (via acquisition of Vocera Communications)

Software Quality Assurance Engineer II, Remote

August 2020 - September 2022

- Automated 200+ product features within a custom Python framework, expanding automated test coverage for Acute Care products by ~30% and improving overall release reliability.
- Led the XMPP continuous integration initiative, achieving 500+ automated feature coverage and reducing manual verification workload by ~80%.
- Collaborated with cross-functional engineering teams to investigate and resolve defects in real-time clinical communication systems used across hospital environments.
- Performed root-cause analysis on integration failures across XMPP interfaces to maintain compliance with IEC 62304 medical device software standards.

Neumo (formerly Intellectual Technology, Inc)

Solutions Engineer, Fort Wayne, IN

October 2019 - July 2020

- Delivered solution architecture designs and technical recommendations to stakeholders, mapping business requirements to scalable system implementations across cloud and on-premise environments.
- Partnered with R&D to standardize engineering workflows and technology integrations, accelerating prototyping cycles and reducing time-to-deployment.
- Designed infrastructure topologies and authored architecture documentation supporting high-availability deployments and system observability.

Brotherhood Mutual Insurance Company

Business Analyst, Fort Wayne, IN

April 2017 – January 2019

- Contributed to and maintained a Ruby automation framework with 4,000+ test cases to ensure reliability and quality of client-facing systems.
- Authored automation training guides and served as team trainer for automation onboarding.
- Defined acceptance criteria, analyzed requirements, and created test plans translating business objectives into actionable backlog items.

Education:

Albion College

Bachelor of Arts in Economics and Management
Minor in Mathematics

Graduation: December 2016

West Virginia University

Master of Science, Software Engineering (*In Progress*)

Expected Graduation: December 2026

Core Competencies & Technical Skills:

- **Languages & Frameworks:** Swift, C++, TypeScript, JavaScript, Python, PHP
- **Mobile & Frontend:** SwiftUI, SwiftData, React, Expo, Next.js, SvelteKit, Tailwind CSS
- **Testing & Quality Engineering:** XCTest, GTest, Selenium, Playwright, Jest, CI/CD (GitHub Actions, Jenkins), TDD, custom automation frameworks
- **Backend & Infrastructure:** Supabase (Postgres, Edge Functions), Cloudflare (R2, Workers), AWS (S3, EC2), Google Cloud Run, Docker, Node.js, MongoDB, Tauri, Linux
- **AI & Emerging Technologies:** OpenAI / Anthropic integrations, AI-assisted development (Claude Code, Copilot), AI Agents
- **Data & Analytics:** pandas, scikit-learn, NumPy, MySQL, PostgreSQL

Projects:

Uywayki

January 2026 - Present

- Designed and developed a full-stack iOS pet care app for pet owners in Lima, Peru, featuring vaccination tracking with expiration alerts, care scheduling with smart reminders, and a searchable map of 1,000+ local pet services. Approved for Apple App Store distribution with Android APK built for sideloading.
- Engineered a backend layer using Supabase (Postgres + Row Level Security), Cloudflare R2 for photo storage, and Cloudflare Workers for authenticated uploads with rate limiting, file validation, and per-user storage caps.
- Built a multi-layer test suite using Swift Testing and XCTest with unit tests for auth flows, notification scheduling, analytics events using dependency injection mocking, Fastlane-driven UI tests for App Store screenshots, and end-to-end demo account validation.

Kestrel

January 2026 – February 2026

- Built an embedded-style system health monitor in C++17 and Swift, featuring continuous polling of CPU, memory, battery, and storage sensors through macOS kernel APIs with configurable intervals and normalized output.
- Implemented a rule engine that evaluates sensor readings against configurable thresholds and tracks system health across three states (Healthy/Warning/Alert), verified through fault injection testing (simulated spikes, missing readings, invalid values) and backed by 76 automated tests.

Triage Intake Service

March 2026

- Built a Node.js event triage service (TypeScript, Koa, PostgreSQL, BullMQ) using hexagonal architecture with port interfaces enabling fully isolated unit tests against mocked dependencies. Integration tests run against real Postgres and Redis via Docker Compose, validating the full intake-to-queue flow end-to-end.