ELIJAH KOLAWOLE

FULL-STACK SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Full-stack engineer who turns ambiguous product problems into **production systems**, taking ownership across architecture, data modeling, deployment, and performance. Seven years building 0-to-1 systems and modernizing legacy platforms - including a healthcare platform serving **over 8.5 million provider pages** - with a track record of measurable performance wins (**95% latency reduction, 66% faster builds**). Deep across Vue/Nuxt, Node.js, PostgreSQL/PostGIS, cloud infrastructure, payments, search, and applied AI. Embraces an agentic software development workflow, using AI across problem framing, implementation, and verification while retaining **full agency and ownership of architecture, code, and technical decisions**.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Go, Dart, C++

Frontend: Vue.js 3, Nuxt.js 3/4, React, Next.js, Flutter, Tailwind CSS, HTML, CSS, SSR, SSG, ISR, accessibility, component architecture, state management, performance

Backend: Node.js, Fastify, Express, REST APIs, authentication, payment systems, API design, background jobs, caching

Data: PostgreSQL, PostGIS, relational modeling, geospatial search, full-text and fuzzy search, query optimization, data migration pipelines, backups

AI: Codex, Claude Code, Cursor, agentic software development, OpenRouter, RAG, MCP, multimodal AI, rapid AI prototyping, prompt engineering, on-device inference

Cloud & DevOps: GCP Cloud Run, Cloud Functions, serverless, Secret Manager, AWS Lambda, Netlify, Git, Docker, CI/CD

Product & UX: Figma, interface design, design systems, prototyping

CS Fundamentals: data structures and algorithms, system design, software architecture, design patterns

EXPERIENCE

Amyntor Cloud

Software Engineer · *August 2024 - Present*

Own end-to-end architecture and delivery across client engagements for a software consultancy - taking publishing, e-commerce, and web platforms from legacy-system assessment through system design, implementation, deployment, and production operations.

- Designed and shipped a **production Vue/Nuxt e-commerce application** with a decoupled WordPress backend - product discovery, cart and checkout, customer accounts, and a user dashboard - owning it through commercial launch.
- Re-architected a legacy page-per-article publishing platform into a **schema-driven Nuxt Content system**, designing and building a **Python and BeautifulSoup migration pipeline** that converted **140+ legacy articles** into structured Markdown.
- Built **Article Desk** (Nuxt 4, TypeScript, Go on serverless GCP Cloud Functions), a **multimodal AI pipeline** converting handwritten article submissions into editor-ready Google Docs with generated editorial notes - handling document permissions via a service account, writer/editor notifications, retry logic for failed conversions, and token-based authentication.
- Cut verified build time **66% (125.6s to 42.4s)** and reduced prerender output from **564 routes to 20 artifacts** by migrating the platform to **Nuxt 4 with Netlify ISR**.
- Architected the platform's giving infrastructure end-to-end - **Paystack payments, PostgreSQL, Resend, and Google Cloud** - achieving **100/100/100 Lighthouse scores** with approximately **0.8s LCP and zero CLS**.
- Integrated **Stripe payments with Klarna support** and implemented server-side rendering and technical SEO improvements across frontend performance and media delivery.

Zelomed · Bloomington, IL

Software Engineer · *May 2023 - June 2024*

Architected and delivered a nationwide healthcare provider discovery platform spanning approximately **8.5 million provider pages** and **75,000 organization pages** - owning system design, data architecture, APIs, search, authentication, and production operations from initial foundations through launch and ongoing optimization.

- Designed the platform's core architecture from zero: **relational and geospatial data models** for NPI/CMS provider data, a **Fastify REST API with 140+ route handlers**, and the full frontend foundation in Vue/Nuxt.
- Architected and shipped the platform's complete product surface: provider, hospital, and organization discovery; detailed profiles; account claiming and identity verification; audio and video reviews; endorsements; dashboards; feeds; and moderation tooling.
- Reduced geospatial provider-search latency from **60 seconds to under 3 seconds** - a **95%+ improvement** - by redesigning PostGIS queries, indexing strategy, and database functions.
- Built **multi-signal search** combining full-text and fuzzy matching, relevance scoring, specialty and procedure filtering, radius expansion, and distance ranking - integrated with Google Maps geocoding and location detection.
- Designed the authentication and security architecture - access and refresh token flows, secure HttpOnly cookies, password hashing, and email, SMS, and manual identity-verification pipelines.

- Built sitemap-generation infrastructure making **8.5M+ provider URLs and 75K organization URLs** crawlable across location, specialty, provider, and organization pages.
- Containerized and deployed the backend to Google Cloud Run, owning it through releases, incidents, performance regressions, and architectural refactoring.
- Onboarded additional engineers as the platform scaled, reviewing technical decisions, resolving cross-system integration issues, and working closely with the founder on product priorities.

Independent Product Engineering

Software Engineer · *August 2018 - May 2023*

Delivered more than **15 production systems** across banking, e-commerce, cloud services, publishing, and professional services, working directly with founders, stakeholders, designers, and engineers to turn business and user problems into production software.

- Built adumensah.com, a **decoupled Nuxt/Node e-commerce platform** with product and inventory workflows, **Paystack (acquired by Stripe) checkout**, Headless Strapi CMS integrations, structured metadata, SEO optimization, and optimized media delivery.
- Built a digital sustainability report for **Access Bank, one of Africa's largest banks by customer base**, transforming its static PDF report into a responsive, production-grade interactive web experience using Vue and reusable component architecture.
- Owned products from discovery and technical planning through interface design, architecture, implementation, deployment, optimization, and long-term maintenance.
- Worked directly with founders and stakeholders to translate operational needs and product ideas into customer-facing applications, internal tools, commerce systems, content platforms, backend services, and third-party integrations.

Bytelabs Technologies

Software Developer Intern · *January 2020 - June 2020*

- Built Vue/Nuxt interfaces for Watupay, a payments platform, integrating REST APIs to deliver production user-facing features.
- Developed HTML email templates from supplied design files and contributed automated tests across multiple testing suites.

SELECTED PROJECTS

FrameMill - AI-Assisted Gameplay Video Editor

Software Engineer · *2026*

- Built an AI-assisted video editing pipeline using **Go, FFmpeg, Gemini, and Google ADK** to detect gameplay events, generate editable timelines, and render video previews, with optimized frame scanning processing **3,136 checkpoints across a 4-hour recording in 15.8 seconds**.

Kaiwe - Offline-First AI Learning Platform

Software Engineer · *2026*

- Built an **offline-first Flutter learning studio** that turns teacher notes into **validated .learn course packages** using **GPT-5.6 through OpenRouter and on-device Gemma inference**, with structured AI edits and portable files shareable over standard Bluetooth/Wi-Fi transfer for offline playback.

Workout Buddy - On-Device AI Fitness Assistant

3rd Place, Melange On-Device AI Hackathon · *2026*

- Built a **native Swift/SwiftUI squat coach** using **Apple Vision, MediaPipe, and an on-device LLM** to score **depth, posture, and knee stability** in real time, deliver corrective guidance, and persist session history locally.

EDUCATION

Illinois Wesleyan University · Bloomington, IL

B.S. Computer Science · *August 2026*

Vice President, AI Club · Coursework: Algorithms, Data Structures, Software Engineering, Artificial Intelligence, Networking, Database Systems

University of Ibadan · Ibadan, Nigeria

Computer Science studies · *2018 - 2022*

Transferred to Illinois Wesleyan University.

Udacity Nanodegree

Full Stack Web Developer · *May 2020*

Independently completed 5 projects with features ranging from authentication, API development, database design and structure, cloud (AWS) infrastructure, Continuous Integration (CI), Continuous Deployment (CD), and more. Completed the program with high reviews for my capstone project.