

ERIC KARUGU

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PROFESSIONAL SUMMARY

Senior Fullstack Software Developer and System Architect with over 5 years of experience scaling cloud-native applications and securing financial infrastructure with a security-first mindset. Proficient in TypeScript, NestJS, Vue.js, Next.js, and Kubernetes. Proven track record of designing highly available backends and high-performance caching layers like Redis, processing over \$3M+ in transactions, and executing complex, zero-downtime data migrations. Selected as Top 1% of global developers by Turing. Passionate about system reliability, System Integration, clean architecture, and driving engineering excellence within cross-functional teams.

EXPERIENCE

Senior LLM Training Engineer (Contract)

Turing | Remote | March 2026 - Present

- Successfully passed rigorous technical vetting (Top 1% globally) to join Turing's elite engineering network as a Fullstack Software Developer.
- Train and optimize AI coding agents (Computer-using Agents) in complex logic, system architecture, and algorithmic problem-solving to improve LLM code-generation capabilities through best software development standards.

Senior Software Engineer & Core Architect

Fleetsimplify | Remote | Feb 2023 - March 2026

- Architected and executed a zero-downtime emergency migration of 10,000+ user financial wallets and payment infrastructure to a new provider, preventing catastrophic data loss, ensuring data integrity, and securing the company's core revenue stream.
- Designed and maintained a resilient Google Cloud Platform (GCP) infrastructure using Docker and Kubernetes for container orchestration, supporting a growing user base of over 12,000 with 99.9% uptime.
- Directed the strategic migration of the frontend framework from React.js to Next.js (SSR) to optimize frontend assets and convert Figma designs into pixel-perfect interfaces, reducing page load times by 50% and significantly improving user retention.
- Led a team of 5 engineers, establishing strict Git workflows, deployment pipeline standards, code reviews, and clean architecture (SOLID) principles while mentoring junior peers to increase the team's overall deployment velocity.

Senior Backend Consultant (Fractional)

Qawqal | Remote | Nov 2023 - Oct 2025

- Engineered a scalable backend architecture leveraging NestJS, GraphQL, and PostgreSQL with a strong focus on query optimization, NoSQL databases, and robust RESTful APIs design for a platform serving 10,000+ users.
- Developed a high-performance, low-latency video streaming feature using FFmpeg and Node.js, utilizing Redis for efficient caching layers.
- Containerized services using Docker on GCP and AWS S3 for secure storage, establishing automated build and deployment pipelines to ensure streamlined scaling and consistent environments.

Software Engineer

Fleetsimplify | Remote | Nov 2021 - Feb 2023

- Digitized manual fleet management operations into automated workflows for seamless System Integration, leading to significant time and cost efficiencies across the organization.
- Engineered and integrated a digital payment system from scratch using OAuth 2.0 and OpenID Connect for secure authentication, processing over \$3M in automated revenue collection.

Web Consultant

Kayana Create | Nairobi, Kenya | Oct 2021 - March 2022

- Redesigned and optimized "Passport To Business," an e-learning platform, using WordPress, Vue.js (including the Composition API), and JavaScript (ES6+) to enhance user engagement.
- Upgraded and maintained three company-wide websites, improving overall SEO performance, frontend assets loading, and usability.

EDUCATION

BSc. Applied Physics and Computer Science | Multimedia University of Kenya | 2016 - 2020

SKILLS

- **Languages:** TypeScript, JavaScript (ES6+), Python, SQL
- **Backend:** NestJS, Node.js, Express, Django, Flask, GraphQL, RESTful APIs, Deno, Bun, OAuth 2.0, OpenID Connect
- **Frontend:** React.js, Next.js, Vue.js (including Composition API), Tailwind CSS, Pinia, Redux, Figma (converting to pixel-perfect code)
- **Database:** PostgreSQL, MariaDB, MySQL, MongoDB, NoSQL, Redis (caching), Prisma, Drizzle ORM, TypeORM
- **DevOps & Cloud:** Kubernetes (container orchestration), Docker, Google Cloud Platform (GCP), AWS (including AWS S3), Git workflows, deployment pipeline (CI/CD)
- **Other:** System Design, System Integration, Microservices, AI Coding Agents (GitHub Copilot)

CERTIFICATIONS

Kubernetes and Cloud Native Associate (KCNA) - The Linux Foundation