

Eric Gitangu - Software Engineer Architect

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Software Engineer Architect

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Professional Summary

Full-stack Software Engineer Architect with 10+ years of experience and strong backend expertise, architecting and delivering scalable, high-performance applications across telecommunications, fintech, and enterprise platforms. Expert in Python, Node.js, and Java with deep experience in APIs, microservices, and event-driven architectures powering billing, subscription, and payment systems. Proven track record managing PostgreSQL, MongoDB, DynamoDB, and Redis at scale with replication, sharding, and high-availability configurations. Proficient in React/Next.js for frontend delivery. Based in Nairobi, Kenya, passionate about building technology that connects communities across Africa.

Technical Skills

Backend & APIs: Python, Node.js, Java, Go, Rust, REST APIs, GraphQL
Databases & Data: PostgreSQL, MongoDB, Redis, DynamoDB, MySQL, Kafka, RabbitMQ
Cloud & DevOps: AWS,

Kubernetes, Docker, GCP, Azure, CI/CD, Terraform **Frontend**: React, Next.js, TypeScript, Angular, Vue.js, Tailwind CSS **Architecture**: Microservices, Event-Driven Systems, System Design, Multi-tenant, API Design **Web3/Blockchain**: Solidity, Smart Contracts, DApps, Web3.js **AI/ML**: TensorFlow, PyTorch, LLMs

Professional Experience

Team Lead | Ignite Energy Access

Nairobi, Kenya | October 2025 - Present - Lead automation initiatives and performance optimization for energy access infrastructure serving communities across Africa - Drive technical roadmap for scalable platform architecture supporting B2B operations - Implement real-time monitoring and data pipelines for network intelligence

Team Lead | ENGIE Energy Access

Nairobi, Kenya | May 2025 - October 2025 - Led automation and process optimization for B2B platform operations across African markets - Architected event-driven systems for billing, customer management, and operational workflows - Integrated SQL and NoSQL databases for low-latency analytics and multi-tenant scalability

Director of Engineering / Lead Engineer | Vishnu Systems, Inc.

Atlanta, GA | January 2024 - August 2025 - Oversaw AI/ML security product lines for healthcare providers using AWS serverless and Kubernetes - Architected event-driven microservices with SQS/SNS and Kinesis for real-time data pipelines - Built subscription and billing systems with multi-tenant architecture - Reduced deployment cycles through streamlined CI/CD and DevSecOps scanning

Lead Software Engineer | Baw Bab Technologies, Inc.

Seattle, WA / Nairobi, Kenya | April 2023 - August 2025 - Developed digital address logistics platform for last-mile delivery, piloted in Nairobi - Integrated real-time event streams (Kafka, Azure) and geo-based microservices - Established containerized deployments with Docker and Kubernetes - Applied advanced algorithms (Dijkstra's, A*) for route optimization

Senior Software Engineer | Reinsurance Group of America (RGA)

Remote | January 2022 - July 2022 - Modernized legacy monolith into microservices (Node.js, Angular/React, AWS ECS) - Optimized data-intensive workflows using advanced algorithms - Deployed robust CI/CD pipeline using AWS CodePipeline + Jenkins

Lead Software Engineer | Deveric Technologies (Freelance)

Nairobi, Kenya / Remote | January 2019 - February 2022 - Delivered fintech and e-commerce solutions for local businesses across Kenya - Built scalable B2B SaaS products with REST/GraphQL APIs and Redis caching - Architected payment platform integrations with multiple PSPs and multi-currency support - Mentored junior developers in data structures and DevOps best practices

Software Engineer | Vecima Networks Inc.

Peachtree City, GA | January 2018 - January 2019 - Contributed to telecommunications network management tools - Developed features supporting OSS/BSS workflows including provisioning - Introduced CI/CD pipelines using Jenkins and Docker

Software Engineer | Veracode

Burlington, MA | December 2015 - January 2018 - Built and enhanced security integrations for real-time vulnerability scanning - Re-architected core modules using Spring Boot, Docker, and Kubernetes - Collaborated with security teams to fix CVEs using TDD

Software Engineer (Co-op) | IBM

Littleton, MA | September 2013 - May 2014 - Contributed to WebSphere Portlet Factory test automation - Improved regression coverage and reduced manual QA - Optimized build pipelines to accelerate release schedules

Education

Bachelor of Science in Computer Science | University of Massachusetts at Lowell Minor: Mathematics | 2011 - 2015 - Microsoft Scholarship Recipient (2012-2013) - Google Scholarship Recipient (2011-2012) - Dean's List (2011-2015) - Omicron Delta Kappa (ODK) Honor Society

Certifications (80+)

Backend & Cloud: Meta Back-End Developer, Node.js Essential Training, Django Web Framework, AWS for Developers, Kubernetes
Frontend: Microservices
JavaScript Blockchain: Blockchain Specialization, Smart Contracts, Decentralized Applications
Languages: HackerRank Python, HackerRank Java, Go Programming, Rust Specialization (Duke)
AI/ML: TensorFlow for AI/ML, GANs (DeepLearning.AI)

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