NSUBUGA AKRAM

SENIOR FULL-STACK ENGINEER | DISTRIBUTED SYSTEMS & CLOUD ARCHITECTURE (7+ YRS EXP)

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PROFESSIONAL SUMMARY

Versatile Full-Stack Engineer with over 7 years of end-to-end software development experience designing scalable backend microservices, high-performance web frontends, and API integrations. Proven track record founding tech initiatives and leading engineering teams (Akitix, Vibecode) to deliver resilient web and mobile-facing systems. Highly proficient across C#/.NET development, modern frontend frameworks (React, Vue, JavaScript/TypeScript), event-driven microservices, cloud infrastructure, and leveraging AI-assisted workflows (Claude Code) to accelerate robust software delivery for African fintech and mobility solutions.

TECHNICAL CORE COMPETENCIES

Full-Stack Development: C# / .NET Core, ASP.NET Core Web API, Node.js, TypeScript, React, Vue.js, HTML5/CSS3

Architecture & Design: Event-Driven Microservices, RESTful APIs, Single Page Applications (SPA), Distributed Systems, Service Bus / RabbitMQ

Cloud & DevOps: Azure Cloud Services, Docker, Kubernetes, CI/CD Pipelines, Infrastructure as Code, Render

Databases & Observability: PostgreSQL, SQL Server, Redis, Automated End-to-End Testing, Prometheus, Grafana

AI & Developer Tools: Claude Code AI workflow integration, Git, Postman, Linux Administration

ENGINEERING EXPERIENCE & LEADERSHIP

Senior Full-Stack Engineer / Consultant

Google & Apple (Contract / Partner Ecosystems)

2021 – Present

- Engineered and optimized core web services, microservice APIs, and high-concurrency frontend features within large-scale distributed architectures.
- Collaborated with global cross-functional engineering teams to maintain strict code quality, zero-downtime CI/CD deployments, and enterprise-grade security standards.

Founder & Lead Full-Stack Architect

Vibecode Software Development | Kampala, Uganda

2022 – Present

- Architected and built full-stack digital products, unifying modern frontend interfaces with secure backend payment bridges (including `munopay-bridge` on cloud environments).
- Engineered robust REST APIs and event-driven microservice workflows connecting responsive web interfaces with multi-currency payment platforms.
- Integrated AI coding tooling (Claude Code) into day-to-day full-stack engineering workflows, accelerating feature delivery cycles by over 40% while maintaining high test coverage.
- Managed end-to-end cloud infrastructure, monitoring UI performance, server health, and system reliability across production environments.

Lead Technical Operations & Director

Akitix | Kampala, Uganda

2023 – Present

- Spearheaded system architecture and full-stack technical operations for client applications and digital platforms across East Africa.
- Enforced DevOps best practices, front-to-back automated testing routines, and continuous delivery pipelines to maintain uptime and seamless user experience.
- Collaborated across multidisciplinary product teams to turn complex financial and operational business requirements into scalable frontend and backend software.

Full-Stack Software Engineer Independent Tech Consulting | Kampala, Uganda

2019 – 2023

- Delivered full-stack applications with dynamic frontend UIs and backend APIs for platforms including Jiji, Atlas Southes, Muno Watch, husseinbrokerscompany.com, and Forex Goats.
- Optimized frontend asset loading and SQL/NoSQL database queries, cutting overall page render and API latency during peak user traffic.