MILLER JUMA

Software Engineer | Distributed Systems & Cloud Infrastructure · jumamiller@yahoo.com · +254748730956 · https://www.linkedin.com/in/jumamiller

EDUCATION

Jomo Kenyatta University

B.Sc. Computer Technology   Aug 2018 - Dec 2022

Systems-focused Software Engineer with experience in Windows kernel instrumentation, cloud-native performance benchmarking, and distributed backend architecture. Currently optimizing OS-level regression pipelines at Microsoft. Proven track record of reducing infrastructure overhead by 90% and accelerating binary execution for millions of devices.

WORK EXPERIENCE

Microsoft   Nairobi, KE

Software Engineer   Sep 2024 - Present

- Performance Benchmarking: Engineered and maintained a suite of 500+ automated benchmark cases for Windows kernel subsystems, serving as the primary performance quality gate for 4+ product teams.

- Systems Optimization: Diagnosed and resolved high-priority boot/runtime bottlenecks using deep-dive profiling, resulting in a 20% improvement in execution speed for core OS binaries.

- Infrastructure Automation: Architected a regression detection pipeline within Azure DevOps that eliminated 80% of manual validation hours, accelerating the weekly release cadence.

- Capacity Scaling: Collaborated with cross-functional engineering leads to expand benchmark coverage by 3x, ensuring reliability across diverse hardware configurations.

Griffin Global Technologies   Atlanta, Georgia

Software Engineer   Jan 2024 - Sep 2024

- Backend Architecture: Designed a modular C#/.NET backend to replace legacy SAP modules, saving the company $100k+ annually in licensing fees.

- Operational Efficiency: Led the migration to internal enterprise resource tools, enabling real-time synchronization across HR and finance departments.

- Code Quality: Enforced engineering excellence through strict code review protocols and CI/CD integration, reducing production bug rates by 40% and stabilizing feature velocity.

Solutech Limited   Nairobi, Kenya

Software Engineer   Mar 2023 - Dec 2023

- Cloud Migration: Executed a zero-downtime migration of 100+ client databases from single-tenant DigitalOcean droplets to a multi-tenant Kubernetes (GKE) cluster, reducing hosting costs by 90%.

- Legacy Modernization: Refactored a monolithic Laravel 5 application into a modern Laravel 10 micro-architecture, implementing role-based access control (RBAC) and improving maintainability.

EARLY CAREER & INTERNSHIP   Nairobi, Kenya

Software Engineer Intern   Jan 2022 - Feb 2023

- SasaPay (Fintech): Built automated AML compliance software reducing onboarding from 3 days to <3 hours. Integrated secure payment gateways for high-volume enterprise clients.

- Kinetic Technology: Developed and deployed certification portals for national bodies (KISEB, IEK), managing data digitization for thousands of professional users.

SKILLS & COMPETENCIES

Languages:	C, C++ (Systems), C# (.NET), Java (Spring Boot), Python, JavaScript (Node.js), SQL.
Cloud & DevOps:	Kubernetes, Docker, Azure DevOps, Terraform, Kafka, CI/CD Pipelines.
Systems Engineering:	Performance Profiling (WPA), Regression Analysis, Binary Optimization, Win32 APIs.
Data & Backend:	PostgreSQL, Redis, gRPC, RESTful APIs, Microservices Design.