

Collins Muriuki

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SUMMARY

- Software Engineer with over 5 years of experience architecting scalable systems, building developer platforms, and leading cross-functional delivery in fast-paced environments. Proven track record of mentoring engineers, driving technical strategy, and shipping impactful solutions across distributed teams. Passionate about civic-tech, developer tooling, and using modern languages like Rust, TypeScript and Python to build systems that scale ethically and sustainably.

EXPERIENCE

- **Holochain Foundation** Remote (Nairobi, Kenya)
Rust Software Engineer Dec 2023 – Present
 - **Improved SDK Developer Experience:** Owned developer experience across Rust and TypeScript SDKs, introducing macro-based compile-time checks that reduced runtime bugs and accelerated integration timelines for ecosystem apps.
 - **Scaffolding Codegen Optimization:** Redesigned CLI scaffolding system to generate production-ready Rust/TS code, cutting onboarding time by 50 percent.
 - **HTTP Gateway for Web2 Interoperability:** Led the development of a low-latency HTTP gateway bridging Web2 apps with Holochain's backend, with resilient WebSocket recovery for real-time sync
 - **Open Source Project Stewardship:** Maintained key open-source repos (scaffolding, WindTunnel, CHC), triaging issues, reviewing PRs, and coordinating releases.
 - **Cloudflare Integration:** Shipped Cloudflare Durable Objects integration for distributed state sync.
- **Flinkit GmbH** Remote (Nairobi, Kenya)
Lead Full Stack Software Engineer Aug 2021 – Sep 2023
 - **Team Leadership Delivery:** Led a cross-functional team across engineering and product, mentoring junior devs and driving roadmap delivery.
 - **AI-Powered Messaging Solution:** Designed and launched an LLM-powered WhatsApp messaging extension, increasing engagement rates
 - **Open API Developer Platform:** Architected a public OpenAPI integration platform that enabled third-party integrations and unlocked enterprise deals
 - **Infrastructure Modernization:** Modernized infra using DB migrations and Terraform-based IaC, reducing deploy errors and increasing velocity by 30 percent.
 - **Salesforce Integration Layer:** Built real-time Salesforce sync via GraphQL/PostgreSQL for B2B operational workflows.
- **Africa's Talking** Nairobi, Kenya
Software Engineer (Freelance) Oct 2020 – Jan 2022
 - **Greenfield Project Development:** Led the greenfield development of a B2B customer identity SaaS platform — including the product landing page, developer console, and technical documentation.
 - **Developer Experience Delivery:** Collaborated with internal stakeholders to scope and deliver an MVP, enabling early partner onboarding through a clean, developer-friendly interface.
- **TIBU Health** Nairobi, Kenya
Full Stack Software Engineer Feb 2020 – Aug 2021
 - **API Architecture Modernization:** Migrated a legacy system to a Docker/Kubernetes-based microservice architecture, enabling zero-downtime deployments.
 - **Real-Time Matching Engine:** Built a Redis + gRPC-powered real-time patient-doctor matcher, cutting response times significantly.
 - **Internal Logistics Dashboard:** Designed a logistics dashboard that replaced manual workflows and increased ops visibility.

PROJECTS

- **Bunge Bits:** A civic-tech platform that scrapes YouTube livestreams of Kenya's National Assembly and Senate, extracts audio, segments content, and generates concise AI-powered summaries. Built in Rust, the tool enhances public access to legislative proceedings and promotes transparency. <https://bungebits.ke>
- **M-Pesa Rust SDK:** Developed an open-source Rust wrapper for M-PESA, East Africa's leading mobile money platform. Exposes RESTful APIs for payments, reversals, account balance checks, and STK push integration — enabling seamless financial workflows for Rust applications. <https://crates.io/crates/mpesa>
- **Sqika:** A web platform that allows users to request short, personalized videos from influencers and creators. Built with a TypeScript + Next.js frontend and a serverless backend for video processing and delivery.

SKILLS

- **Languages:** Rust, TypeScript, JavaScript, Python, Go, SQL
- **Frameworks & Libraries:** Actix, Axum, Tokio, React, Svelte, Next.js, Nest.js, Node.js, Flask, Electron, Tauri
- **Infrastructure:** Docker, Kubernetes, Terraform, Cloudflare, PostgreSQL, Redis, WebAssembly (Wasm)
- **DevOps & Tooling:** Nix, GitHub Actions, CI/CD, OpenAPI, gRPC, TCP/HTTP, GraphQL, WebSockets, Cryptography
- **Cloud Platforms:** AWS, DigitalOcean, GCP, Bare Metal

EDUCATION

- **United States International University** Nairobi, Kenya
Coursework in Applied Computer Technology *2019 – 2020*
- **Moringa School** Nairobi, Kenya
Certificate in Full Stack Software Development *Aug 2019 – Jan 2020*