Tirus Tendwa Khamasi

Email: tiruskhamasi@gmail.com

Phone: +254704500346

Location: Nairobi, Kenya

LinkedIn: https://www.linkedin.com/in/tirus-khamasi/

GitHub: https://github.com/Tendwa-T

PROFESSIONAL SUMMARY

Software Engineer with a degree in Applied Computer Science, specializing in designing, building, and maintaining robust, resource-efficient systems across web, mobile, and backend environments. Proficient in driving the full software development lifecycle using Flutter, NestJS, and Java Spring Boot. Adept at system architecture, disaster recovery, and developing highly scalable, production-ready solutions utilizing lightweight, terminal-centric development workflows.

WORK EXPERIENCE

Technical Co-Founder

Loomlights Limited | October 2025 - Present

- Directed the technical strategy and mobile development of the "Tap and Go - Vendor" MVP, bridging product vision with rigorous system execution to accelerate time-to-market
- Maintained hands-on contributions to the codebase, enforcing clean architecture principles and resource-efficient performance across the deployed products

Full-Stack Engineer

E-Poultry Limited | November 2025 - Present

- Architected the foundational backend infrastructure utilizing NestJS, building scalable REST APIs thoroughly documented with Swagger to support seamless client and third-party integrations.
- Developed complex mobile dashboard utilizing Flutter, empowering poultry farmers with real-time, data-driven productivity tools
- Developed and Implemented CI/CD pipeline to ensure high system availability
- Engineered secure data flows and business logic, including the generation of verifiable identification codes to authenticate farmer-agent interactions.

Software Development Intern (Front-end)

Litemore Limited (Zeraki) | June 2025 - September 2025

- Engineered responsive, highly interactive frontend interfaces utilising Vite.js and TypeScript, significantly improving overall user experience and rendering performance.
- Maintained and stabilized enterprise backend microservices utilizing Java Spring Boot, troubleshooting critical issues and implementing code quality improvements to ensure long-term maintainability.
- Participated actively in Agile/Scrum ceremonies - including sprint planning and retrospectives - to enhance workload management, task breakdown, and cross-functional team delivery.

Vice President & Backend Developer

Daystar Information Technology Association (DITA) | May 2024 - April 2025

- Conceptualized, developed, and deployed the community's primary backend infrastructure while simultaneously directing the day-to-day operations of the university's technical association

EDUCATION

Bachelor of Science in Applied Computer Science

Daystar University | September 2022 - April 2026

SKILLS

Databases: MySQL • PostgreSQL

DevOps: ArgoCD • Docker • Git • Kubernetes

Frameworks: Flutter • NestJS • NextJS • React • Spring Boot

Languages: Dart • Go • Java • Javascript/Typescript • Swift

PROJECTS

E-Poultry

- Mobile Development: Built cross-platform mobile applications (iOS/Android) featuring offline-first data logging, push notifications, real-time IoT device monitoring, and role-based workflows for farmers and extension officers.
- Backend Architecture: Architected and deployed scalable microservices and RESTful APIs managing farm analytics, offline data sync for over 1,000 active smallholder farmers.
- CI/CD & Infrastructure: Engineered automated CI/CD deployment pipelines and containerized cloud infrastructure, delivering high uptime, zero-downtime releases, and automated database backups.

Technologies: Flutter, Nestjs

N/A

Live: https://www.e-poultry.com/

BSides Nairobi

- Executed a complete architectural redesign of the BSides Nairobi platform utilizing React.
- Implemented dynamic functional features to significantly enhance visual appeal, SEO performance, and user engagement across the site.

Technologies: React

https://github.com/Tendwa-T/Bsides-Nairobi

Live: https://bsidesnairobi.ke/

Jedwali

- Engineered a mobile timetabling application to streamline academic scheduling for users managing semester-long classes and assignments.
- Implemented custom UI scaffolding, complex data structuring, and local notifications to deliver a seamless user experience

Technologies: Flutter, Nodejs

https://github.com/Tendwa-T/jedwali

Library Management System

- Built a robust data management and inventory tracking solution, engineering relational data flows utilizing PostgreSQL and JavaScript.

Technologies: Javascript, PostgreSQL

https://github.com/Tendwa-T/library-management-system

Portfolio Website

- Engineered a dynamic, fully responsive portfolio platform utilizing NextJS and React.
- Implemented Tailwind CSS and Framer Motion to execute complex styling and animations

Technologies: Next.js, React, Tailwind CSS, Framer Motion

https://github.com/Tendwa-T/portfolio

Live: https://tendwa-savayi.vercel.app

Internet Monitor

- Developed a native macOS status bar application to track network latency, and download speeds
- Engineered utilizing Swift UI and Go Concurrency to monitor device connection via networks to the internet while maintaining system resource allocation to ensure minimal CPU and memory overhead

Technologies: Swift, Go

https://github.com/Tendwa-T/InternetMonitor

Tunely

Tunely is a mobile Audio player. When google stopped development of Google Music Player, users had to depend on third parties like VLC to play their music or streaming services. Tunely makes it such that I can play my music offline and connect with a friend

Technologies: Mobile, Flutter, Go

https://github.com/Tendwa-T/tunely-mobile

Custom Development Environment

- Architected a highly optimized, terminal-centric development environment utilizing Neovim to eliminate resource bottlenecks associated with heavy IDEs
- Engineered custom configurations and language server protocols to support seamless full-stack development across Dart, Java, Javascript and Golang
- Minimized memory consumption and CPU overhead, ensuring stable, high-performance compilation and deployment on constrained hardware

Technologies: Lua, Shell

https://github.com/Tendwa-T/nvim-config

Vault VCS

- Researched the workings of git version control and reimplemented version control in Rust. The aim was to understand the inner workings of version control and to fix some of the highlighted pitfalls in the system

Technologies: Version Control, Rust

https://github.com/Tendwa-T/vault-vcs