

MORRIS MULANDI MWANIA

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ABOUT

Backend Engineer & Infrastructure Architecture (in training) at Kirinyaga University specializing in backend systems, APIs and data driven platforms. I work on putting together practical infrastructure in which hardware, connectivity and institutional resources may be limited. My focus is on education, health care and what may be considered underserved areas where I use AI and automation to transform outdated manual processes into transparent and scalable systems.

EXPERIENCE & LEADERSHIP

Mozilla Responsible Computing Challenge – Kirinyaga University

Sep 2023

Animator & peer Trainer

- Created educational animations on responsible technology use.
- Trained the 2nd RCC cohort (Responsible Computing Challenge), building communication and leadership skills.

Power Learn Project (PLP) – 1 million Devs for Africa

July cohort

AI for software development, Scholar & Hackathon Participant

- Accelerated technical proficiency through a 1,000+ hour immersive dev program in python, databases and entrepreneurship.
 - Participated in four national hackathons, building ready production systems under pressure.
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PROJECTS

HOPE AI | [skin-diagnosis](#)

AI Dermatology Assistant (FastAPI, TensorFlow/Keras, Flutter, Google Gemini)

- Developed a backend for automated skin and nail condition analysis that is ready for production.
- Built an image classification API for skin allergies, acne, hair loss, nail fungus, and normal.
- Created a safe AI chat endpoint with safety filters for dermatology advice.
- Achieved 70% accuracy on initial training sets in classifying 5 common dermatological conditions using a custom-trained TensorFlow model.

Client E-Commerce Platform

Next.js, Supabase, Node

- Developed and maintained a production e-commerce system for a live business.
- Implemented inventory management, order workflows, and SEO.
- Recovered the platform after a production database failure without data loss.

EcoEngage | [eco-engage](#)

Sustainability Platform (Hackathon Project)

- Admin dashboard and backend were created for a gamified sustainability platform.
- Real-time activity feeds, data management and impact tracking were implemented for an SDG 15 hackathon system

Responsible Computing Animation Platform | [kyu-animation-hub](#)

- Created a public-facing platform documenting responsible computing initiatives.
 - Implemented dynamic events, galleries and project showcases with **SEO** friendly routing.
 - Launched a live system that supported real outreach workshops and student projects.
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GRIT & OWNERSHIP

System Restoration: Performed manual data migration and record reconstruction under a strict 8-hour SLA, restoring 100% of user data before the start of the next business day.

Process Improvement: Post-incident, I implemented a CI/CD pipeline with staging-environment tests to ensure zero-downtime deployments for future updates.

EDUCATION

Kirinyaga University

Sep 2023 – 2027 (expected)

Bachelor of Science in Information Technology

Specialization: Backend systems, Software Development, Mobile Development, Machine Learning

Related Coursework: Data Structures and algorithms, Client & Server-Side Programming, Object Oriented Programming, Statistics and Discrete Mathematics, Linear Algebra and Calculus, Machine Learning, Database programming.

Dedan Kimanthi University of Technology

Sep 2023 – Dec 2023

Professional Certificate: 3D Animation & Digital Media

Technical Peer Trainer & Project Lead

Specialization: Trained in 3D animation, designing engaging visuals to communicate complex concepts.

NOTE: Completed concurrently with Bsc Coursework to master visual communication for technical systems.

TECHNOLOGIES

Languages: JavaScript (JSX, TypeScript), Python, Java, SQL

AI/ML: TensorFlow/Keras (Image Classification)

Database: Supabase (Auth, Storage), SQL, PostgreSQL, MongoDB

Backend: Node.js, Express, FastAPI

Frontend: React, Next.js (App Router), Tailwind CSS

Tools: N8N (Automation), API Design (REST),
JWT/Auth, Git, GitHub, Cloud Deployment
(Render/Vercel).