



PERSONAL DETAILS

Date of Birth: 19 June 2001

Sex: Male

Nationality: Tanzanian

CONTACT

Phone: +255 627 182 180

Email:
Jacksonwambali@gmail.com

LET'S CONNECT

GitHub

github.com/Jacksonnavigator

LinkedIn

linkedin.com/in/jackson-wambali

Portfolio

jacksonportfolio.onrender.com

Hugging Face

huggingface.co/Jacksonnavigator7

Instagram

@jacksonnavigator

LANGUAGES

English: Fluent

Swahili: Native

CORE STRENGTHS

- Full-stack web & mobile development
- UI/UX design
- IoT & embedded systems
- AI/ML model training
- Client communication & delivery
- Teaching beginners to code

JACKSON HAMISI WAMBALI

Full-Stack Developer • UI/UX Designer • IoT Engineer

Tanzania

PROFESSIONAL SUMMARY

Full-stack developer and Electrical & Computer Engineering graduate with hands-on experience building and shipping web, mobile and IoT products for real businesses in Tanzania's tourism, healthcare, education and mining sectors. Comfortable owning a project end to end — from UI/UX design and hardware integration to backend, payments, deployment and SEO. I also create beginner-friendly coding content on Instagram and YouTube, and run my own tech startup, TechNova.

WORK EXPERIENCE

TechNova (Electronics & IoT)

Present

Founder & Lead Developer

- Founded and run a technology startup offering electronics, IoT and software solutions.
- Building AI-driven automations to handle business operations efficiently.
technova-m4cq.onrender.com

Freelance Full-Stack Developer & Web Designer Dec 2024 - Present

Self-employed

- Design, build and maintain websites for clients including Eagle Vision Safaris, Ebby Adventures & Safaris and Don Bosco KIITEC.
- Improve site performance, content and search visibility (SEO, Google Search Console).
- Deliver custom web and mobile apps covering payments, booking and admin dashboards.

Wise Future

2025 - Present

Software Developer & Designer

- Develop and design software solutions, contributing to both UI/UX and implementation.

Twende Organization

Sept 2025 - Oct 2025

Intern - Electrical & Instrumentation

- Gained practical experience in electrical systems, instrumentation and field work.

Zanzibar Cable Television Ltd (ZCTV)

Jul 2023 - Sept 2023

Intern - Fiber Optics & Networking

- Performed fiber optic splicing and router configuration for customer connections.

Tech Content Creator (@jacksonnavigator)

Ongoing

- Create coding tutorials and tips for beginner developers on Instagram and YouTube.

EDUCATION

Don Bosco KIITEC

2022 - 2025

Diploma in Electrical and Computer Engineering

Kigonsera Secondary School

2020 - 2022

Advanced Certificate of Secondary Education (A-Level)

St. Anselm Secondary School

2017 - 2019

Certificate of Secondary Education (O-Level)

St. Peter's Junior Seminary School

2016 - 2017

Ordinary Level Secondary Education (O-Level)

INTERESTS

- Artificial Intelligence & Machine Learning
- Technology trends & innovation
- Designing practical tech solutions
- Open-source contributions
- Photography & videography

REFEREES

Fr. Sebastian Chartum

Director, Don Bosco KIITEC
+255 685 273 530

Tumaini Lyimo Mungubariki

Lecturer, Don Bosco KIITEC
+255 622 325 055

KEY PROJECTS

Uriphytos Hospital Management System

May 2025 – Sept 2025

- Designed and launched a multi-hospital management system that digitizes patient records and daily hospital operations.

iphytosmedssystem.com

Waleki - Water Monitoring System

Oct 2025 – Dec 2025

- Integrated hardware sensors and a web dashboard to monitor water levels and usage in tanks and wells.
- Collected usage data to train an AI model for consumption prediction.

waleki.onrender.com

Agricultural IoT Soil Monitoring System

- ESP32-based system reading soil sensors over RS485 Modbus RTU, with live data in Firebase, GSM SMS alerts and weather data from the OpenWeather API.

Tech: ESP32, RS485/Modbus RTU, Firebase Realtime DB, GSM, OpenWeather API

Maasai Marketplace (for HAC)

- Cross-platform marketplace app with buyer, seller and admin roles, plus M-Pesa and Stripe payments.

Tech: React Native, Expo, Firebase, M-Pesa, Stripe

NELMA - Water Delivery App & Sales System

- Mobile app and sales system for ordering and delivering 20L drinking water to NM-AIST students' hostels.

Tech: React Native, Expo Router, TypeScript, i18n

Safari Company Websites

Dec 2024 – Present

- Eagle Vision Safaris: responsive React website with booking enquiries and ongoing SEO work.
- Ebby Adventures & Safaris: complete Laravel 11 website with database-driven tour content.

eaglevisionsafaris.co.tz

ebbyadventuresandsafaris.co.tz

Bird Classification for Weather Conservation

Feb 2025 – May 2025

- Trained an AI model at Don Bosco KIITEC to classify migratory and non-migratory bird species, supporting environmental monitoring.

huggingface.co/spaces/Jacksonnavigator7/Bird

Other Builds

- Azure Horizon – yacht booking system (React/Vite, FastAPI, SQLite, JWT auth).
- MikroTik hotspot voucher system for a commercial internet-selling business.
- Minada Catalog – Firebase-powered React app for mining ore product listings.
- Pata Chumba (in progress) – app connecting people looking for rooms/houses with property owners.

TECHNICAL SKILLS

Frontend: React, TypeScript, Vite, Tailwind CSS, HTML, CSS, JavaScript

Mobile: React Native, Expo, Flutter

Backend: Python (FastAPI, Flask), Laravel (PHP), Firebase, SQLite, REST APIs, JWT auth

Payments: M-Pesa, Stripe

IoT & Hardware: ESP32, sensors, RS485/Modbus RTU, GSM modules, electrical wiring

AI / ML: Model training, image classification, Hugging Face

Networking: Router & MikroTik configuration, fiber optic splicing

Tools & Design: Git/GitHub, Render, Google Search Console (SEO), UI/UX design, photography, video editing