Leo Mabuku

SOFTWARE DEVELOPER · COMPUTER SCIENCE GRADUATE · ENTREPRENEUR

Lusaka, Zambia · open to Kitwe and remote
+260770464736
leokmabuku@gmail.com
leo-mabuku-portfolio.pages.dev
linkedin.com/in/leo-mabuku-7a2645330

Computer Science graduate from The Copperbelt University, building Android, web, IoT and systems software. I work in Kotlin, Python, TypeScript and C, and I run a 37-subscriber internet service alongside development. Currently an IoT intern with CodeAlpha.

EXPERIENCE

Internet of Things (IoT) Intern | CodeAlpha
Oct 2026–Present · Remote

- Selected for CodeAlpha's IoT internship track, running from 20 October to 20 November 2026, focused on applied sensor work, prototyping and technical reporting.
- Working through applied IoT tasks spanning sensor simulation, prototype builds and a written case study.
- Applying ESP32 and telemetry experience from SmartWater Zambia to a structured internship brief.

Founder · Network Service Operator | Starlink Internet Service
Feb 2026–Present · Kopa Street, Kitwe

- Launched and operate a Starlink-powered internet service covering a boarding house and approximately 30 metres beyond the property, currently serving 37 paying subscribers.
- Configured Starlink Mini and ARRIS SURFboard Max W121 mesh equipment.
- Automated subscriber network access through a MikroTik hEX router, so paid subscriptions map to real bandwidth limits.

Founder · Sales & Operations | Leo M. Suppliers
Feb 2022–Apr 2026 · Livingstone, Zambia

- Started as a field-based fleece blanket business, registered with PACRA in June 2022 and opened a shop at Plot 98, John Hunt Way on 14 September 2022. Operations closed in April 2026.
- Handled sales, procurement, stock decisions, customer relationships, online marketing and deliveries.
- Helped move the business from field selling to formal retail operations.

Data Analytics Trainee | MedTourEasy
Sep 2025 · Remote

- Completed a four-week training programme and live analytics project.
- Applied structured analysis to a practical project.
- Worked with professional confidentiality expectations and guided training modules.

SELECTED PROJECTS

TongaLang | Python, PLY, Tkinter, Pytest, PyInstaller
A programming language for beginners, built on words from Tonga, with a desktop app that explains each mistake instead of only flagging it.

SmartWater Zambia | Kotlin, Jetpack Compose, React, Vite, Node.js
Water level sensors, an operator dashboard and a community reporting app, built as one system during the GreenCode Hackathon.

SubTrack BH | Kotlin, Jetpack Compose, Room, Firebase, WorkManager
An Android app I use every day to run a 37-subscriber internet business: payments, expiry dates and router access in one place.

CBU-FIND | Kotlin, Jetpack Compose, Vinext / React, TypeScript, Firebase
A lost-and-found app for campus, so a missing item is posted, claimed and handed over in one place instead of scattered across group chats.

SERC Mini-OS | C, Raylib, Win32, GCC, Make
An operating systems coursework project with console, Raylib and Win32 builds of the same ideas.

EDUCATION

Bachelor of Science in Computer Science | The Copperbelt University · Graduated 2025
Huawei Datacom Training · Prompt Engineering for Everyone (Oct 2025) · Microsoft Power BI (Workshop) · Microsoft Learn Student Ambassadors (Workshops) · Data Analytics Traineeship (Sep 2025) · ICTAZ (Member / participant) · Marketing & Sales · Money Skills · Entrepreneurial Skills (Business courses)

RECOGNITION

GreenCode Hackathon | Top 6 team of about 100 builders from zambia — 30 Oct – 1 Nov 2026
Finished among the six winning teams, earning follow-on support from Garage48 and BongoHive and a share of the €6,000 award fund.

TOOLKIT

Languages: Python, JavaScript, TypeScript, Kotlin, C, C++, PHP, SQL, HTML, CSS · Frontend & mobile: React, Astro, Tailwind CSS, Vite, Android, Jetpack Compose, Chart.js, Leaflet · Backend & data: FastAPI, Node.js, Express, REST APIs, PostgreSQL, SQLite, SQLAlchemy, Supabase, Firebase · Networking & hardware: MikroTik RouterOS automation, LAN design, Ethernet termination, ESP32 IoT, Server-Sent Events