

KURHULA SUCCESS MALULEKE

Software Engineer · Final-year BSc Computer Science & Mathematics, North-West University · Graduating 2027
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maluleke-ks.vercel.app · github.com/MALULEKE-KS · linkedin.com/in/kurhula-success-maluleke-32153231a

SUMMARY

Final-year Computer Science & Mathematics student who ships production software: a live real-money savings ledger, a client business platform and a portfolio that enforces its own rules in the database, all tested and shipped through CI. Strongest in TypeScript, Next.js, PostgreSQL and testing; appointed peer tutor in applied mathematics. Seeking a 2027 graduate programme or junior role in software engineering, AI or data.

EXPERIENCE

Founder & Lead Engineer · KSDRILL-SA (Pty) Ltd, Limpopo · Remote 2025 – Present

- Xkimi Xa Mali** — *fintech savings platform* · xkimixamali.co.za · Next.js, TypeScript, PostgreSQL, Prisma, NextAuth, Inngest, Redis
- Built and run the live contribution platform for a family savings group of up to 50 members, replacing chat-and-memory record-keeping with an append-only double-entry ledger that every member can trust and that reconciles itself nightly.
 - Integrated Netcash DebiCheck debit orders through signed, idempotent webhook settlement behind a fail-safe gateway, so a retrieved or duplicated payment callback can never post money twice.
 - Automated reminders, reconciliation and SMS, email and in-app notifications as scheduled jobs across a three-app Turborepo monorepo, with Redis rate limiting, Sentry monitoring and 179 automated test files.
 - Deliver in small reviewed increments through GitHub issues, pull requests and CI; use AI-assisted development (Claude Code, Copilot) while owning the specifications, review and acceptance of every change.

Co-Founder, Engineering · GrowthCore Solutions · Remote 2025 – Present

- Sunduza Architectural & Projects** — *client platform* · sunduza-architectural.vercel.app · Next.js, TypeScript, PostgreSQL, Prisma
- Gathered requirements, chose the stack and shipped phase one of an architecture firm's website and admin dashboard, which captures every enquiry and consultation booking for the team to follow through.
 - Modelled bookings as a state machine so a lead can only move through valid stages, secured with JWT sessions, rate-limited APIs and POPIA-aware handling of client data.

Supplemental Instruction Leader · APPM222 Applied Mathematics, Centre for Teaching and Learning, NWU Aug 2026 – Present

- Appointed to lead small-group sessions for 50+ second-year students, working through the problems they find hardest and keeping session records for the centre.

SELECTED PROJECTS

MALULEKE-KS — live portfolio platform · maluleke-ks.vercel.app Nov 2025 – Present

- Next.js 16, TypeScript, PostgreSQL (Neon), Prisma, Vercel AI SDK, Vitest, Playwright
- Built a platform that proves its own claims: a 54-model PostgreSQL schema with 20 business rules enforced by database constraints and triggers, an append-only audit log and a daily GitHub sync.
 - Shipped a read-only AI guide that answers only from the site's data and cites its sources, checked by an AI-evaluation test suite; admin console protected by TOTP two-factor authentication.

Ubuntu Campus Clinic — appointment system, nine-person team (CMPG 311) · GitHub

- Oracle SQL, Python, React, GitHub Actions
- As Database Lead and DevOps, designed the Oracle schema (12 tables, 12 indexes, 4 reporting views) with a unique-slot constraint that makes double-booking impossible at the database level, and built the CI pipeline that tests every pull request.

Also: Tshimo Agri Supplies network design in Cisco IOS (VLANs, NAT/PAT; all 12 tests passed) · ELIZA vs Qwen chatbot comparison (PyTorch, Hugging Face) · YOLOv8 object detection · building: an event-driven banking platform in Java 21 and Spring Boot.

EDUCATION

BSc Computer Science & Mathematics · North-West University, Mahikeng Completing 2026 · Graduating 2027

- Average 68% through the first semester of final year; academic record available on request.
- Shortlisted with my EdTech venture FundsLink Academy for NWU's Leopard's Lair and EDHE Absa InnoVarsity (NWU round), 2026.

National Senior Certificate · Basopa Secondary School, Limpopo 2022

CORE SKILLS

- Languages:** TypeScript, Python, SQL, Java
Web & APIs: Next.js, React, Node.js, FastAPI, REST
Data: PostgreSQL, Prisma, Redis, Oracle
Quality & delivery: Vitest, Playwright, GitHub Actions (CI/CD), Docker, Vercel
AI: PyTorch, Hugging Face, LLM applications and evaluation
Languages spoken: Xitsonga (home language), English (fluent)
The full stack, with the systems that prove each skill: maluleke-ks.vercel.app/about