

Nigel Ephraim Basarokwe

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Professional Summary

Full-stack software engineer specialized in building developer tools, scaling systems, and creating reliable applications that solve real-world logistical challenges. Experienced in taking products from concept to production scale.

Technical Skills

Languages: TypeScript, JavaScript, Python, Rust

Backend: Node.js, Express, Next.js, REST APIs

Databases: MongoDB, PostgreSQL

DevOps: Docker, Nginx, Linux, VPS Management, GitHub Actions

Other: React Native, System Design, SEO, ML (XGBoost)

Work Experience

Software Engineer Intern | Nyanhewe Primary School

Kariba, Zimbabwe | *Mar 2025 - December 2025*

- **Architected and deployed** a full-stack fees management portal (portal.nyanhewepry.ac.zw) and school website (nyanhewepry.ac.zw) using Next.js, Express, and MongoDB
- **Improved bookkeeping efficiency by 80%** by digitizing manual paper systems for 1,200+ students
- **Engineered a production VPS environment** with security protocols for financial data, achieving 99.9% uptime
- **Reduced fee dispute resolution time** by providing instant digital access to payment history

Junior IT Operations & Hosting Engineer | NaidVar Technologies

Jan 2025 - Mar 2025

- **Containerized client applications** using Docker and Nginx reverse proxies
- **Automated infrastructure monitoring** on VPS, proactively resolving bottlenecks
- **Led system migration** with zero data loss during server transitions

Sales Agent | NetroElectronics Zimbabwe

Gweru, Zimbabwe | *Sep 2022 - Aug 2024*

- **Launched the Gweru campus branch** as primary contact for electronic components
- **Increased regional sales by 60%** through targeted outreach to engineering students
- **Managed inventory** for high-demand engineering components

Education

B.Sc. Computer Systems Engineering

Midlands State University (MSU), Zimbabwe | 2022 - 2026 (Expected)

- Active member of **Google Developer Student Clubs (GDSC)**
- Core studies: Engineering Principles, System Architecture, Low-Level Computing

Notable Projects

syncd - Open Source Sync Engine | github.com/nigelbasa/syncd

Built a TypeScript synchronization engine for offline-first apps with conflict resolution between MongoDB databases

inzwi - Crowdsourced AI Dataset Platform | inzwi-frontend.vercel.app

Designed the frontend for collecting Shona-English text-voice pairs for LLM training

Maize Disease Detector - ML Competition | *Zindi Competition - Ranked #6*

Built a Computer Vision solution using XGBoost to identify crop diseases

lightr - Enterprise Email Solution | *In Development*

Building a lightweight TypeScript alternative to Postfix/Dovecot with REST API and automated DKIM

metafy-seo - NPM Package | github.com/nigelbasa/metafy-seo

Utility package for injecting SEO metadata into Vite/CRA PWAs (80 downloads/month peak)

References

Ms S.M. Madondo

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