

MTHOBISI NXUMALO

Full Stack Developer

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PROFESSIONAL SUMMARY

Full Stack Developer with production-grade experience building end-to-end web, mobile, and desktop systems across manufacturing, industrial inspection, e-commerce, and insurance domains. Proficient in Next.js / React, TypeScript, Flutter, Python / Flask, PostgreSQL, Prisma, Docker, and Coolify, with full ownership across the SDLC — requirements and architecture through database design, development, containerised deployment, and ongoing support. Experienced owning entire multi-surface platforms (web, mobile, and desktop) on a single shared database, delivering independently both as an employed developer and through Rephina Software.

PROFESSIONAL EXPERIENCE

Full Stack Developer

Sep 2025 – Present

Wesant Manufacturing / Vision Elevators · Pinetown, KwaZulu-Natal

- Design, develop, and maintain all internal and external web and mobile applications, with full ownership of architecture, delivery, and the complete SDLC.
- Build web apps with Next.js, React, and TypeScript; cross-platform mobile with Flutter / Dart and native Android (Kotlin); and native desktop shells with Tauri.
- Serve as primary DBA for PostgreSQL and Microsoft SQL Server — schema design, query optimisation, indexing strategies, and automated backups.
- Implement authentication and RBAC (JWT / OAuth) across all systems for secure, compliant data access.
- Deploy and run production applications with Docker on self-hosted Coolify infrastructure; maintain CI/CD pipelines, uptime, and monitoring.
- Built ElevateTech — a Product Information Management system, supplier portal, online parts store, and React Native mobile app over one shared product database.

Founder & Full Stack Developer

Ongoing

Rephina Software · Durban, KwaZulu-Natal

- Operate a software practice delivering custom web, mobile, and desktop applications, dashboards, APIs, and workflow automation end to end — architecture through hosting and support.
- Delivered the MPIA Services platform for a non-destructive testing company: seven runnable surfaces across web, desktop, and mobile on one central PostgreSQL database, with offline-first field capture.
- Contract for Qwezy Digitals: built RedHailer, a service-and-product marketplace with PayStack payments, Pusher real-time chat, and QR-code job workflows.

Learner — IT & Systems Support

Jan 2024 – Dec 2024

Hamtern Financial Services · Bryanston, Gauteng

- Built end-to-end workflow automation with Microsoft Power Platform (Power Automate, Power Apps, Power BI), reducing manual administrative effort across departments.
- Developed Python scripts for data extraction, transformation, and automated reporting pipelines.
- Supported IT infrastructure rollouts, user training, and ITSM / enterprise ticketing processes.

KEY PROJECTS

MPIA Services — Industrial NDT Inspection Platform [Software Developer · Rephina Software](#)

Next.js 15 · TypeScript · Flutter · Tauri 2 · PostgreSQL · Prisma · NextAuth

Multi-platform operations system for a radiographic-testing company: admin web + desktop, client portal (web, desktop, mobile), field-capture mobile, and a marketing site — seven surfaces on one central PostgreSQL database. Field app captures offline to local SQLite and syncs when online; Tauri desktop shells with signed auto-updates.

ElevateTech — Manufacturing PIM, Supplier Portal & Commerce [Full Stack Developer](#)

Next.js · React · React Native · TypeScript · PostgreSQL · Prisma · Docker · Coolify

A PIM for structured product data, a supplier portal, a customer-facing parts store, and a React Native mobile app — all over one product database. Bulk CSV import/export, change-history audit trail, role-based dashboards, and automated inventory sync; Dockerised on self-hosted Coolify with zero-downtime releases.

RedHailer — Service & Product Marketplace [Software Developer · contract for Qwezy Digitals](#)

Next.js · TypeScript · PostgreSQL · Prisma · NextAuth · PayStack · Pusher · Capacitor

Marketplace connecting service providers and clients through listings, products, and job workflows. QR-code job

acceptance/completion, PayStack payments with server-side verification, Pusher real-time chat, OpenStreetMap distance-based delivery fees, and Capacitor native Android / iOS.

Rephina ERP — Business Operations Platform [Founder / Full Stack Developer](#)

Python · Flask 3 · SQLAlchemy 2 · PostgreSQL · JWT · Alembic

Full-featured ERP with a 70+ table schema: finance (ZAR + 15% VAT invoicing), CRM, projects, time tracking, HR, support tickets, and reporting. JWT authentication, role-based access control, and audit logging throughout.

TECHNICAL SKILLS

Frontend & Mobile: Next.js, React, TypeScript, JavaScript, Flutter, Dart, React Native, Capacitor, Kotlin, Tailwind CSS, shadcn/ui, HTML5, CSS3, Responsive Design

Backend & Systems: Node.js, Python, Flask, C#, ASP.NET Core, C++, Delphi, REST API Design, JWT / OAuth / RBAC, Gunicorn, MVC Architecture

Databases: PostgreSQL, Microsoft SQL Server, Oracle, SQLite, Prisma ORM, SQLAlchemy, Schema Design, Query Optimisation, Data Migrations

DevOps & Cloud: Docker, Coolify (Self-Hosted PaaS), AWS, Microsoft Azure, GitHub Actions, CI/CD Pipelines, Git & GitHub

Security & Practices: Authentication & RBAC, Cyber Security best practices, SDLC, Requirements Analysis, System Architecture, Code Review, Agile / Scrum

Automation & AI: Microsoft Power Platform (Automate, Apps, BI), UiPath, AI agents & models, PyTorch, Postman, Swagger, API Testing

EDUCATION

BSc Information Technology 2020 – 2023
North-West University · Potchefstroom — Computer Science, Software Engineering, Databases, Networks, Systems Analysis

Short-Term Insurance (NQF 4) 2024
Apex Academy · Insurance Principles, Risk Management, Compliance

National Senior Certificate (Matric) 2015 – 2019
King Edward VII School · Johannesburg, Gauteng

CERTIFICATIONS

- Diploma in CyberSecurity — Alison (2024)
- Responsive Web Design — freeCodeCamp (2023)
- JavaScript Algorithms and Data Structures — freeCodeCamp (2023)