THAPELO NDLOVU

Full-Stack Developer

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PROFESSIONAL SUMMARY

Full-stack developer with a BSc in Computer Science (University of the Witwatersrand, 2025) and three years of freelance experience shipping production web and mobile applications for real clients. Skilled in building responsive frontends, REST APIs, and scalable databases, and in owning deployment, hosting, and infrastructure end-to-end. Proven ability to independently scope, build, test, and ship software, from initial requirements through to post-launch support. Seeking a software development, engineering, or technology support role where reliable, detail-oriented delivery adds immediate value.

TECHNICAL SKILLS

Languages	JavaScript (ES6+), TypeScript, Python, SQL, C, Dart
Frontend	React, Next.js, Tailwind CSS, Vite, Three.js, HTML5, CSS3
Backend	Node.js, Express.js, REST API Design, JWT Authentication, WebSockets
Mobile	Flutter, Firebase
Databases	MongoDB, PostgreSQL, MySQL, SQL Server
Cloud & DevOps	Azure, Vercel, Firebase, Railway, Docker, CI/CD Pipelines, GitHub Actions
Systems	Linux, Windows, DNS/domain configuration, hosting management, LAN setup
Practices	Agile/Scrum, Git/GitHub, technical documentation, debugging & troubleshooting

PROFESSIONAL EXPERIENCE

Freelance Full-Stack Developer — Self-Employed **2023 – Present**

- Design, build, and deploy full-stack web applications for clients using React, Node.js, and cloud platforms including Azure and Vercel.
- Develop REST APIs and design scalable database schemas for production use.
- Manage the complete project lifecycle, from requirements gathering and scoping through to deployment and post-launch support.
- Configure domains, DNS, email, and hosting infrastructure for client websites.

Web Developer & IT Support (Contract) — AS Nonyane Group **2025**

- Built and deployed a corporate website representing three business entities, including engineering and investment services companies.
- Registered and configured a domain, set up professional email accounts, and managed hosting deployment end-to-end.
- Developed a responsive, multi-entity frontend and maintained reliable production hosting infrastructure.
- Delivered on-site IT support, including office LAN configuration, hardware setup, and troubleshooting.

Web Developer (Contract) — Umwensa Pty Ltd **2024**

- Designed and deployed a professional website for a South African surveying and GIS consulting firm.
- Handled domain setup, email configuration, and full hosting deployment from scratch.
- Built a responsive, structured content management interface suited to public and private sector clients.
- Ensured the website met professional compliance standards and remained reliable in production.

Programming Tutor — University of the Witwatersrand **2023**

- Tutored undergraduate students in data structures, databases, and software engineering principles.
- Supported students through debugging sessions and reinforced good coding practices.

KEY PROJECTS

Portfolio with live demos and code samples: thapelotech.vercel.app

Student Opportunities Portal | *React, Node.js, Express, MongoDB, Firebase Storage, JWT*

- Built and deployed a full-stack MERN platform listing 55+ verified bursary, internship, and graduate opportunities for South African students.
- Implemented JWT-based role authentication (student/admin), secure document uploads, and multi-step application tracking.
- Built an admin dashboard with analytics and user management; optimised MongoDB schema design for performance and scalability.

Constitutional Archive System | *React, Azure AI Search, Azure Blob Storage, Node.js, MongoDB*

- Developed a cloud platform for managing and exploring South Africa's constitutional archives with AI-powered document search.
- Achieved 85%+ automated test coverage (Codecov) with CI/CD integration and a modular, maintainable architecture.

Guardian Network — Mobile Safety App | *Flutter, Firebase, Google Maps SDK, TensorFlow Lite, AWS SageMaker*

- Built a community safety app with one-tap SOS alerts (auto GPS, video, and audio capture) and real-time crime heatmaps.
- Integrated AI-driven crime prediction and safe-route navigation features alongside a social-style incident reporting feed.

CampusTrade — Student Marketplace | *React, Node.js, Express, MongoDB, WebSocket, Stripe*

- Built a full-stack marketplace enabling students to buy, sell, and trade items, with real-time chat and secure payment processing.

Sectional Titles Property Management System | *React, Firebase, Node.js, Express, Azure*

- Built a system for managing property maintenance, owner communication, and rule enforcement across multi-owner properties.

EDUCATION

BSc Computer Science — University of the Witwatersrand **2025**