

AVUYILE MTHEMBU

Junior Software Developer | Graduate

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Education

Diploma in Systems Development (NQF Level 6, 364 Credits) 2023 – 2025
Boston City Campus, Durban Final-Year Average: 82%

National Senior Certificate (Grade 12) 2022
Thornhill Christian College Focus: Sciences, Mathematics, Technology

Key Module Results: Praxis 1 **95%** | Systems Analysis & Design 3 **94%** | Security+ (Systems Dev 2B) **92%** | Android App Dev **87%** | Cyber Law & Project Execution **87%** | Business Ethics **86%** | Project Management 3 **85%**

Technical Skills

Software Engineering Fundamentals (Coursework): Object-Oriented Programming, Database Design & Normalization, Systems Analysis & Design, Software Development Life Cycle (SDLC)

Core Programming (Diploma Coursework): Java (OOP), SQL, PHP, HTML5, CSS3, JavaScript

Databases: MySQL, PostgreSQL, SQLite

Developer Tools & IDEs: Git, GitHub, VS Code, NetBeans, Eclipse, Android Studio, XAMPP/AMPPS

AI-Assisted Product Development: Used AI-assisted workflows to prototype and deploy applications with Next.js, React, TypeScript, Firebase, Supabase, and Vercel; responsible for requirements, API integration, environment configuration, and deployment

Experience

Freelance Web Developer 2023 – Present
Self-Employed vylex.co.za/portfolio

- Designed, coded, and deployed **5+ responsive business websites** hand-written in HTML5, CSS3, and JavaScript.
- Worked directly with clients, managing the full development lifecycle from requirements and development to deployment, maintenance, and optimisation using Git, GitHub, and Vercel.

Independent Projects (AI-Assisted Development)

Currently deepening hands-on JavaScript/TypeScript/React proficiency by independently rebuilding core components below.

Vylex Ops — Client Billing Platform 2026
Next.js, TypeScript, Tailwind CSS, Git, GitHub, Vercel

- Directed and shipped a billing platform for managing clients, quotations, invoices, and payments using an AI-assisted development workflow.
- Owned requirements definition, environment configuration, and production deployment via GitHub and Vercel.

ComplyOS — B-BBEE Compliance Platform 2026
React, TypeScript, Firebase, Tailwind CSS, Vite, Vercel

- Directed development of a SaaS platform for B-BBEE scorecards, supplier verification, and audit evidence using AI-assisted coding tools.
- Configured Firebase authentication, database rules, and secure file storage; managed the deployment pipeline.

Civicly — Community Issue Reporting Platform 2026
React, TypeScript, Supabase, PostgreSQL, Leaflet, Recharts, Tailwind CSS, Vite

- Directed development of a platform for reporting and tracking community infrastructure issues, using an AI-assisted development workflow.
- Designed the Supabase/PostgreSQL data model and configured real-time data integration with an interactive map view.

VyLab — Interactive Science Learning Platform 2026
React, TypeScript, Google Gemini API, Tailwind CSS, Framer Motion, Vite, Vercel

- Directed development of interactive Chemistry and Physics learning simulations aligned with the CAPS curriculum, using AI-assisted coding tools.
- Integrated the Google Gemini API for AI-assisted learning features and managed deployment via Vercel.