

AVUYILE MTHEMBU

Full-Stack Developer • Founder • IT Professional

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Professional Summary

Multidisciplinary IT professional and founder of **Vylex**, a software and technology company. Holds a Diploma in Systems Development (NQF Level 6, 82% final-year average) with practical experience in designing, developing, and deploying full-stack web applications, native Android solutions, and enterprise systems. Skilled in translating business requirements into scalable, secure, and well-structured software. Works effectively both independently and within collaborative development environments.

Technical Skills

Front-End	React, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, jQuery, Accessibility
Back-End	Node.js, PHP, Java (Core SE, Swing, JavaFX), REST APIs, MySQL, SQLite
Mobile	Android Native, Android SDK, Java, Material Design
Security	CompTIA Security+ (92%), Ethical Hacking, Network Security, IAM, Cryptography, POPIA
IT & Infrastructure	CompTIA A+, Hardware, Networking, Windows, Linux, XAMPP/WAMP
DevOps & Tools	Git, GitHub, Firebase, CI/CD, Android Studio, NetBeans IDE, AI-assisted dev
Principles	OOP, Systems Analysis, SDLC, DRY, KISS, Agile, Unit & Integration Testing

Professional Experience

Founder & Lead Developer

2023 – Present

Vylex (Pty) Ltd · Durban, South Africa

- Founded and operate a registered technology company delivering custom software, web development, and end-to-end IT solutions to businesses, startups, and individuals.
- Built and maintain **10+ live products** across EdTech, Legal Tech, FinTech, AI, productivity, and SaaS categories — serving 200+ monthly users and 3+ enterprise clients.
- The Vylex ecosystem consists of several platforms and digital products:
 - **Vylex** — A collective of web platforms, software tools, and digital products focused on education, productivity, and professional software development.
 - **SINC Legal** — A POPIA-compliant legal practice management SaaS platform designed for South African law firms.
 - **Vylex Nexys** — A free EdTech ecosystem offering STEM learning, virtual laboratories, and productivity tools for students and professionals.
- Designed and deployed client websites for businesses across home improvement, recycling, cleaning, and e-commerce sectors.
- Led full project lifecycle — requirements gathering, systems analysis, architecture, development, testing, deployment, and ongoing maintenance.
- Implemented security best practices including POPIA compliance, IAM patterns, and zero-trust architecture principles.
- Utilised Git version control, CI/CD pipelines, cloud backend platforms, and AI-assisted development tools (GitHub Copilot, Claude) to accelerate delivery.

Education

Diploma in Systems Development

2023 – 2025 · Graduating May 2026

Boston City Campus · NQF Level 6, 364 Credits · Durban, South Africa

- 100% coursework completed. Final-year average: **82%**.

- Highlights: Praxis 1 — **95%** | Systems Analysis & Design 3 — **94%** | Systems Development 2B (Security+) — **92%** | Android App Development — **87%** | Cyber Law & Project Execution — **87%**
- Focus areas: Systems Analysis, Secure Architecture, SDLC, OOP, Database Design, Cyber Law, Agile Project Management.

Certifications, Awards & Funding

- **Bursary Award — Bilfinger Intervolve Africa (Pty) Ltd (2025)**
Awarded R44,300 covering remaining final-year tuition fees
- **Bursary Award — Hexing Electrical (Pty) Ltd (2024)**
Awarded R29,600 toward tuition fees.
- **CompTIA Security+ Curriculum** — Completed (92% score) via Systems Development 2B module
- **CompTIA A+ Curriculum** — Completed via IT Support module (HTSS100-1)
- **Vylex Live Portfolio** — vylex.co.za/portfolio

Notable Projects & Products

SINC Legal *SaaS · Legal Tech*

POPIA-compliant legal practice management platform for South African firms. Features case tracking, time billing, and secure document storage.

Vylex Nexys *EdTech Platform*

Educational tools and career development resources for students and professionals.

Integrated Digital Ecosystem *Nexora, TaskMaster Pro, Productivo, OCR Tools, Vylex Writer, Vylex CRM, Nexys Social, VyTrack Finance Tracker, SATS Crypto Tracker, Enigma (Encryption), QR Studio, Vylex Drive, Device Inspector*
A multi-domain ecosystem of web-based applications spanning AI productivity, business and finance management, social platforms, utilities, and security tools. The suite supports workflow automation, document creation, client and financial operations, secure data handling, file storage, and system diagnostics within a unified product portfolio.

Client Web Development *Sinc Legal, XYZ Solutions, Everyday Supply Co, Luxury Shutters & Blinds, Amabongo Solutions.*

Custom websites and digital solutions delivered for real businesses across home improvement, recycling, cleaning, and household supply sectors.

Additional Information

Willing to learn new technologies. Driven by continuous learning, meaningful contribution, and long-term growth. Open to opportunities in full-stack development, software engineering, and IT systems roles.