

NOMCEBO LANGELIHLE MTSHALI

Junior Software Developer | C# · JavaScript · Python · SQL · HTML · WordPress | Johannesburg, Gauteng

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🌐 nomcebom-dev.github.io

PROFESSIONAL SUMMARY

Motivated and detail-oriented Junior Software Developer fluent in English, with hands-on experience in C#, JavaScript, Python, SQL, HTML and WordPress. Proven ability to build working software applications and websites independently — demonstrated through eight fully deployed projects including a real-time IoT monitoring dashboard, a browser-based security tool, a community business directory, and three WordPress sites. Currently actively learning Java, leveraging a strong C# foundation given the two languages share object-oriented principles and similar syntax. A fast learner who thrives in technical environments and is eager to grow within a software development team specialising in IoT, fleet management and device development.

TECHNICAL SKILLS

Primary Languages: C# · JavaScript · Python · SQL

Currently Learning: Java (strong C# base)

Web: HTML5 · CSS3 · Responsive Design · WordPress

Database: SQL · MySQL · Database Development

Version Control: Git · GitHub

Concepts: OOP · DOM manipulation · REST APIs · IoT

Tools: VS Code · Chrome DevTools · Linux basics

Networking: TCP/IP · OSI model · Network fundamentals

Languages (spoken): English (fluent) · Afrikaans (fluent)

Soft Skills: Self-management · problem solving · documentation

SOFTWARE PROJECTS

All source code: github.com/nomcebom-dev | Live demos: nomcebom-dev.github.io

NexaHome — Real-Time IoT Smart Home Dashboard | [Personal Project](#) | nomcebom-dev.github.io/smarthome-dashboard

2025

- Built a fully functional IoT monitoring dashboard simulating 4 rooms of sensor data — temperature, humidity, AQI and motion — updating live every 3 seconds via a JavaScript simulation engine with realistic drift algorithms.
- Implemented automated threshold-based alert system that detects out-of-range readings and logs timestamped events — directly mirrors the kind of device monitoring and alert logic used in TSS's fleet and IoT systems.
- Built 4 dashboard views (Dashboard, Sensors, Alerts, Devices), device toggle controls for 8 devices, and a rolling Canvas line chart — all in vanilla JavaScript with zero frameworks, demonstrating strong core programming.

PhishGuard — Email Threat Detection Tool | [Personal Project](#) | nomcebom-dev.github.io/Phishguard

2024

- Built a browser-based phishing email analyser in JavaScript with 47+ regex detection patterns across 6 attack categories — demonstrates strong logic, pattern-matching and conditional programming skills.
- Implemented a real-time 0–100% threat scoring engine with categorised output and risk recommendations — clean, readable, well-structured code attached as source code sample with this application.

MzansiBiz — Township Business Directory | [Personal Project](#) | nomcebom-dev.github.io/mzansi-biz
2024

- Built a data-driven searchable directory with a live JavaScript search engine, multi-category filtering, sort functionality and a validated submission form — demonstrating structured data handling and UI logic.
- Managed 48 records across 8 categories with consistent data structure — directly applicable to database-driven application development.

Ubuntu Quiz — Interactive Quiz Platform | [Personal Project](#) | nomcebom-dev.github.io/ubuntu-quiz
2025

- Designed a complete game loop — Fisher-Yates shuffle randomisation, countdown timer, state tracking across score/category, and dynamic DOM rendering across 30 questions and 3 difficulty levels.

WORDPRESS PROJECTS

Live WordPress site: nomcebomdev.wordpress.com

TechBridge SA — Nonprofit Coding Education Site | [WordPress Project](#) |
nomcebomdev.wordpress.com

2025

- Built a full multi-section nonprofit website on WordPress covering programmes, impact statistics, FAQs, volunteer recruitment and calls to action — demonstrating content management and page building skills.
- Applied correct H1 → H2 → H3 heading hierarchy throughout for SEO, structured multi-column layouts using the WordPress block editor, and consistent formatting across 7 content sections.

LearnRight Tutoring — Services Business Site | [WordPress Project](#) | nomcebomdev.wordpress.com
2025

- Built a complete tutoring services website with pricing packages, subject listings, testimonials, a 4-step how-it-works section and FAQ — demonstrating ability to build conversion-focused business websites.
- Structured content with clear user journeys, multiple CTAs and mobile-responsive column layouts using the WordPress block editor.

FinSmart SA — Personal Finance Education Platform | [WordPress Project](#) |
nomcebomdev.wordpress.com

2025

- Built a content-rich online education platform with 4 detailed free courses, financial tools section, impact stats and testimonials — the most complex WordPress project demonstrating advanced content organisation.
- Directly relevant to TSS's fintech-adjacent clients — demonstrates ability to build financial services content in a CMS environment.

EDUCATION

Dip in I.T specialise in Software Development (2nd Year) | [Belgium Campus ITversity](#) |
Johannesburg

2024–present

Relevant completed modules:

- C# Programming — object-oriented development
- Database Development 261 — 67%
- Web Programming 161 — 65%
- Project Management 261 — 71%
- Networking Fundamentals — TCP/IP, OSI model
- Software Testing principles
- IoT Concepts and Applications
- IT Law and Ethics

National Senior Certificate | [Jeppe Girls High School](#) | Gauteng

2023

LANGUAGES

English: Fluent — written and spoken
isiXhosa: Fluent — written and spoken

Afrikaans: Fluent — written and understand
isiZulu: Fluent — written and spoken

ADDITIONAL INFORMATION

- Available to start immediately
- Based in Johannesburg — willing to commute to Edenvale
- Actively learning Java through self-study
- 8 live deployed projects with clean source code on GitHub
- Comfortable working independently and in teams
- Strong interest in IoT, fleet systems and device development

REFERENCES

Available on request.