

Nhlanzeko Lwazi Mhlongo

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Professional Profile:

Dedicated Software Engineering Graduate with a strong academic record (76.3% average) and a passion for continuous learning. Successfully bridged the gap between formal education and industry standards by actively upskilling in modern technologies like Next.js and TypeScript. Self-motivated developer with experience in both collaborative academic projects (StudyConnect v1) and independent full-stack development. Eager to join a professional team to further develop technical skills and contribute to innovative software solutions.

Education:

Eduvos | 2023 – Completed: January 2026

Bachelor of Information Technology : Software Engineering | Final Grade Average: 76,3%

Projects

1. Personal Portfolio Website | (www.lwazimhlongo.com / [Github](https://github.com))

Built with: **React.js, Tailwind CSS, Vercel**

- Engineered a high-performance personal portfolio using React architecture and Tailwind CSS for responsive design.
- Configured a CI/CD pipeline using GitHub Actions to automate build and deployment workflows, ensuring seamless updates.
- Implemented advanced UX features including a lanyard, slide-up/slide-down page transitions and smooth scrolling navigation.
- Developed a serverless contact form backend to replace legacy email links, improving user engagement and security.
- Optimized SEO and meta tags to ensure professional indexing and social sharing preview performance.
- Managed full-stack deployment configuration, including custom domain DNS settings and HTTPS security certification.
- Connected Google Analytics to monitor user behavior and traffic.

2. Humble Coffee | E-commerce Platform ([Demo](#) / [GitHub](#))

Built with: **Next.js, TypeScript, Tailwind CSS, Supabase**

- Developed a full-stack e-commerce solution featuring a dynamic pricing engine to handle complex product variants (e.g., weighted items, gift cards).
- Engineered advanced cart logic with LocalStorage persistence to ensure a seamless user experience across sessions.
- Architected a scalable database schema on **Supabase (PostgreSQL)** to manage real-time inventory and product data.
- Implemented secure user authentication and row-level security (RLS) to protect sensitive customer data and transaction history.
- Optimized mobile performance using adaptive media loading techniques to improve core web vitals.

3. StudyConnect | Student Networking PWA ([Demo](#) / [GitHub](#))

Built with: **Next.js, TypeScript, Tailwind CSS**

- Migrated legacy native Android architecture to a high-performance Progressive Web App (PWA) using Next.js 14 to eliminate installation barriers.
- Leveraged TypeScript for strict type safety, ensuring robust code maintainability and reducing runtime errors during scaling.
- Implemented a "Find Peers" discovery engine allowing users to filter connections by university, module, or study interests.
- Engineered a custom "Digital Phone" UI chassis with Glassmorphism aesthetics (backdrop-blur) to simulate native mobile interactions within a web browser.
- Implemented independent viewport scrolling and touch-simulation logic to replicate the "feel" of a native mobile app on desktop interfaces.

Technical Skills:

- **Languages:** TypeScript, JavaScript (ES6+), PHP, Python, HTML5, CSS3.
- **Frameworks & Libraries:** Next.js, React, Tailwind CSS.
- **Tools & Platforms:** Git, GitHub, Supabase, MySQL, MongoDB, Firebase, Android Studio, Vercel.

Soft Skills:

- Self-Motivation & Discipline: Proven ability to manage independent projects (like Humble Coffee) from concept to deployment without external supervision.
- Continuous Learning: Actively upskilling in new technologies to stay current with industry standards.
- Collaborative Teamwork: Experience collaborating in agile academic teams (StudyConnect v1) to deliver shared project goals.
- Analytical Problem Solving: Strong determination to debug complex issues and find creative technical solutions.