

Lethukuthula Gumede

Junior Software Engineer | JavaScript, Java, Python

Durban, KwaZulu-Natal

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Professional Summary

Software engineer working across the full stack, from database schema to deployed infrastructure. I design and build multi-service platforms end to end, from ER diagrams to production Azure deployments. Based in Durban, South Africa.

Experience

Job Shadowing

The Digital Media Collective (TDMC)

2022

- Observed and assisted in various digital media projects.
- Gained insight into industry practices and workflows.

Web Developer

South African Mini Industry Development (SAMID)

2024

- Developed and maintained a website for a non-profit organization.
- Ensured website functionality and user experience.

Tester and Developer – Intern

EKhonnector Systems

2025-2026

- Improved system quality and delivering efficiency by validating fixes, reducing recurring client-reported errors, ensuring clean production data, and helping stabilize critical workflows (sales, HR, finance, and claims) across multiple platforms.
- Performed end-to-end testing across multiple eKhonnector client systems, identifying functional, UI/UX, validation, and data consistency issues, and producing detailed actionable QA reports for developers.

Software Engineer and GIS Planner – Intern

ILITHA Telecommunications

2026

- Building an inventory management module for a fibre network operations platform, including approval workflows, stock tracking, and procurement, from schema design through UI/UX prototyping.

- Lead key workstreams within the intern engineering team, coordinating architecture decisions and delivery.
- Contributed to FTTH network planning and GIS work that has since been implemented in production.

Technical Projects

Realhome: Real-estate Website

2024

- Description: Developed a comprehensive real estate website to showcase property listings.
- Technologies Used: GitHub, Git, NextJS, React, JavaScript, Tailwind CSS, Supabase, NodeJS.
- Outcome: Successfully deployed a user-friendly website that facilitated easy property search and management.

BookaSpot: BnB booking Web App

2025

- Description: Developed a full-stack booking platform for seamless space management, reservation and communications.
- Technologies Used: Java, Spring Boot, JavaFX, PostgreSQL, Docker, JWT Authentication, REST API.
- Outcome: Achieved a secure, responsive, and intuitive application with a modern user experience.

Hackathons

IBM Watsonx

2026

Team PHANTOMOJO — Health Flow: Patient Journey & Queue Optimization

- Description: Served as System Architect for a team-built AI solution to reduce hospital queues and improve patient flow across the African healthcare referral chain — tracking patient movement from clinic, to local, to district, to hospital level.
- Technologies Used: IBM Watsonx, AI/ML for outlier detection and prioritization.
- Outcome: Delivered a working prototype capable of surfacing outlier cases for priority triage and giving healthcare staff visibility into patient movement across the referral chain.

Skills

Programming Languages:

Python, HTML, CSS, JavaScript, TypeScript, Java, React, NodeJS.

Technical Skills:

- Version control using:
Git and GitHub
- Cloud platform and database management using:
Azure, Google Cloud Platforms (GCP), Amazon Web Services (AWS), Docker.
- Leadership and Teamwork
- Community Service and Volunteering
- Microsoft: Power BI

Leadership Roles

CTU Durban Campus

2024 - Present

- Member of Student Representative Council (SRC)

Northwood High School

2019 - 2023

- Representative Council of Learners (RCL)
- Tech-Team Captain and Robotics Team Member
- Junior Achievement South Africa (JASA) Participant – Entrepreneurial program
- Musical Tech-Team Member & Stage Manager

Volunteering

Golden Hours Project

2023

- Volunteered for various community service activities.
- Promoted motor skills and creativity through various activities, at school for children with disabilities.

Education

CTU Durban Campus

Present

- Software Engineering 2025 - Ongoing
- Programming Foundation 2024

Northwood High School, 2023

- High School NSC (National Senior Certificate)

Certifications

Certiport

- IT Specialist: HTML & CSS 2024

Microsoft

- Microsoft Azure Data Fundamentals: DP-900 – Microsoft 2024
- Microsoft Copilot Training MS-4005 Craft Effective Prompts 2024
- Microsoft Azure Fundamentals: AZ-900 2025
- Microsoft Excel 2019 Associate 2025