Lwazi Nhlakanipho Shozi   SOFTWARE ENGINEER

CONTACT

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EDUCATION

Cape Penisula University Of Technology   expected graduation May 2026

Diploma in ICT Applications Development

- Object-Oriented Programming
- Data Structures and algorithms
- Database Systems management
- Mobile Application Development

PROJECTS

Student Accomodation System For CPUT(ResiFind)

Backend Developer   Jan 2024-Nov 2024

- Developed a scalable backend system using JavaScript, Html, Css and SQL, enabling seamless student residence search functionality and secure user data storage.
- Collaborated with a 4-person team through Agile sprints, delivering a 96%-graded project by debugging issues and optimizing database queries.
- Managed a fully functional relational database system with SQL, ensuring data integrity and performance for 100+ simulated CPUT student residence listings.

Motor Vehicle Voting System.

Team Lead and backend dev   July 2024-Nov 2024

- Designed and implemented an industrial-grade control system using Java and Swing/AWT, enabling real-time monitoring and user-friendly UI for ventilation management.
- Integrated a robust backend with JDBC and MySQL, ensuring seamless data flow between the UI and database for live system performance tracking.
- Architected a scalable multi-tier solution combining modern UI design with backend infrastructure, demonstrating expertise in complex industrial system development.

Full-Stack Developer | CPUT Computer Lab Booking System

Team Lead and backend dev   Jan 2025 May 2025

- Engineered a user-centric lab booking platform using React, Java Spring, and SQL, enabling students to reserve computers based on specific software/hardware requirements.
- Designed a dynamic filtering system with Spring Boot APIs, allowing real-time matching of user needs (e.g., CAD tools, GPU specs) to available lab resources.
- Optimized database operations via SQL query tuning, reducing booking confirmation latency by 40% and supporting 50+ concurrent users during peak hours.

SKILLS

- **Programming** : Java, Python, Javascript, Html, CSS, SQL, Kotlin, Node.js React, Spring boot.
- **Mobile Development**: Android Studio, Android SDK
- **Software systems** : Figma, Pycharm, Intelij,
- **Platforms** : Linux, MacOS and Windows.
- **Development Practises**: Agile Methodology, Scrum, Unit Testing.
- **Other Skills**: Problem-solving, code optimization, Cross-platform development, UI/UX design principles.
- **Interests** : Chess Football swimming and playing video games.