

FANI MABASO

Final-Year IT Student | Data, Software & Systems

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Final-year BSc Information Technology student with a solid academic foundation in software development, data analytics, database management, and systems analysis. Developed strong analytical and problem-solving abilities through coursework and collaborative projects. Keen to begin a graduate career where I can apply my technical skills, contribute to practical technology solutions, and continue developing professionally in software engineering, data analytics, or technology consulting.

SKILLS

Technical

- Python, Oracle SQL Developer, PL/SQL
- Database Design
- Data Analytics
- Object-Oriented Programming
- Microsoft Excel
- Git / GitHub, HTML/CSS, C++
- Networking: TCP/IP, Subnetting, Routing & Switching, VLAN Configuration, Cisco Packet Tracer

Professional

- Analytical Thinking & Problem Solving
- Requirements Gathering & Solution Design
- Communication (written & verbal)
- Teamwork & Collaboration
- Adaptability & Self-Starter
- Attention to Detail

EDUCATION

Bachelor of Science in Information Technology

North-West University, Vanderbijlpark

- Key Modules: Data Analytics, Artificial Intelligence, Decision Support Systems, Systems Analysis & Design, Advanced Databases, Data Structures & Algorithms, Object-Oriented Programming, Computer Networks, Operating Systems, Database Systems

PROJECTS

SafeRide Transport Services — Relational Database System

Group Project | Oracle SQL Developer, PL/SQL

- Designed a normalised Oracle SQL database with structured controls over scheduling, driver allocation, and trip tracking, applying data integrity and validation principles used in system-based controls.
- Wrote PL/SQL procedures and analytical reports to surface operational risks and support informed, data-driven decision-making — combining database engineering with business analysis.

Textbook Rental Management System

Individual Project | HTML, CSS, C++

- Designed and developed a web-based textbook rental management system, applying software design principles to implement inventory management, rental validation, and a user-friendly interface that improved upon a console-based application.

Enterprise Network Design

Group Project | Cisco Packet Tracer, VLANs, Subnetting, TCP/IP | 2025

- Configured the Technicians' Office network segment (VLAN 20, subnet 192.168.20.0/24) within a larger enterprise topology, achieving full connectivity across wired and wireless devices.

CERTIFICATES

- Data Analytics Essentials — data cleaning, transformation, validation, SQL queries, business intelligence
- Introduction to Cybersecurity — foundational knowledge of cybersecurity principles, common cyber threats, risk management, and security best practices
- Introduction to Data Science — foundational data science principles and workflows