MPHO MATSEKA
SOFTWARE DEVELOPER | FULL STACK

Building intelligent, people-centered solutions through code and data.

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Portfolio: mphomatseka.dev   **Location:** Gauteng, South Africa

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PROFESSIONAL PROFILE

Final-year Software Development student with practical experience in **Full Stack Engineering** and **Data Analytics**. Skilled in building interactive dashboards, fraud detection algorithms, and chatbot interfaces. Currently finalizing an IBM Full Stack Professional Certificate. Seeking to leverage strong Python and Java skills to build scalable, intelligent software solutions.

TECHNICAL SKILLS

Core Languages	Python, JavaScript (ES6+), Java, SQL
Web & Frameworks	React.js, Flask, Spring Boot, Tailwind CSS
AI & Data	Machine Learning (Scikit-learn), Data Visualization, Chatbots
Cloud & Tools	Azure AI, Oracle Cloud (OCI), Docker, Git/GitHub
Systems Analysis	User Dashboards, Process Automation, Data Integrity

FEATURED PROJECTS

Credit Card Fraud Detection System
Python, Flask, Scikit-Learn, Data Visualization

- Developed a Machine Learning model achieving **80.6% recall** to identify fraudulent transactions.
- Built an interactive web dashboard (Flask) to visualize fraud patterns for non-technical users.
- Implemented data cleaning pipelines to process 250,000+ financial records, ensuring high data integrity.
- Demonstrated ability to bridge the gap between complex ML logic and user-friendly software.

Student Records Management System
Java, SQL, Object-Oriented Design

- Architected a secure backend system for managing sensitive student data.
- Designed a robust database schema with strict validation rules to prevent data corruption.
- Applied OOP principles to create modular, maintainable code for long-term scalability.

HealthTrack.AI (In Progress)
React Native, Mobile Architecture, AI Integration

- Designing a mobile-first architecture for patient vital monitoring.
- Planning the integration of a chatbot assistant for symptom checking.
- Focusing on secure, real-time data synchronization between mobile app and backend.

EDUCATION & CERTIFICATIONS

Diploma in Information Technology (Software Development)
Vaal University of Technology | Final Year (Graduating soon)

- **IBM** Full Stack Software Developer (In Progress)
- **IT Varsity** Full Stack Development Certificate
- **Oracle Cloud Infrastructure 2025** AI Foundations Associate
- **Microsoft Azure** AI Fundamentals (AI-900)
- **Cisco** CCNA v7: Introduction to Networks & Cybersecurity

ACHIEVEMENTS

- **Finalist:** FNB App of the Year Hackathon & VUT Internal Hackathon.
- **Production Ready:** Built 3 applications demonstrating full system lifecycle (SDLC) competence.
- **Advocacy:** Active advocate for Ehlers-Danlos Syndrome awareness.