

MPHO MATSEKA

Information Systems Graduate | Software Developer | Data & AI

Building intelligent, people centered solutions through code and data

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Professional Summary

Final year Information Technology student waiting for final results with strong experience in software development, information systems, and data analytics. Skilled in building scalable applications, automating processes, and working with large datasets. Strong analytical ability with experience supporting system integrity, documentation, troubleshooting, and dashboard reporting. Looking to apply technical and systems skills within People and Culture Information Systems to support enterprise HR operations and improve employee experience.

Technical Skills

Languages & Frameworks: Python, Java, JavaScript, React, Flask, Spring Boot

AI/ML & Data: Scikit-learn, NLP, Data Analytics, Model Deployment, Feature Engineering

Frontend Technologies: HTML5, CSS3, Tailwind CSS, Material UI, Responsive Design

Backend & Databases: SQL, PostgreSQL, RESTful APIs, Database Design

Cloud & DevOps: Oracle Cloud Infrastructure, Microsoft Azure, Docker, Git/GitHub

Information Systems & HRIS: User support and troubleshooting, Process automation, Data integrity and quality control, Records and workflow management, Reporting and dashboard creation, Understanding of HR processes

Methodologies: Agile/Scrum, Problem solving, Debugging, Code Review

Projects

Credit Card Fraud Detection System

Python • Scikit learn • Flask • Data Visualization

- Developed ML model achieving 80.6 percent recall rate for fraud detection
- Processed and analyzed 250000 plus financial records while ensuring data integrity
- Integrated usability features that translate complex analytics into HR friendly dashboards
- Demonstrated strong understanding of enterprise data workflows relevant to People analytics

Pitch Perfect AI

JavaScript • Google Gemini API • Web Audio API • Real time Processing

- Built an AI powered speaking coach supporting communication improvement
- Created user friendly UI aligned with employee training and development use cases
- Implemented real time feedback and performance metrics
- Demonstrated ability to build tools that enhance employee learning experiences

Student Records Management System

Java • AWT • Data Structures • Object Oriented Design

- Built a records management system similar to HR personal information workflows
- Implemented accurate data validation and error handling supporting data quality control
- Designed CRUD features aligned with employee record management principles
- Demonstrated understanding of compliance, privacy, and structured data storage

Education

Diploma in Information Technology - Software Development

Vaal University of Technology, South Africa, Final Year - Awaiting Final Results

- Specialized in Software Development and Information Systems
- Completed industry certifications in AI, cloud, and cybersecurity

Certifications

- Oracle Cloud Infrastructure 2025 AI Foundations Associate — Oracle
- Microsoft Azure AI Fundamentals (AI-900) — Microsoft
- Full Stack Development Certificate — IT Varsity
- IBM Data Fundamentals — IBM
- CCNA v7: Introduction to Networks — Cisco
- Introduction to Cybersecurity — Cisco

Achievements

- Competed in FNB App of the Year Hackathon
- Participated in Intervarsity Hackathon
- Competed in VUT First Annual Internal Hackathon
- Completed 6 professional certifications in AI, cloud, and software development
- Developed 3 production level applications demonstrating information systems capability