

Kamohelo Maphela

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Professional Summary

Data Engineer with strong foundation in cloud platforms including AWS and Oracle Cloud Infrastructure (OCI). Experienced in data analytics, database management, and data pipeline development. Skilled in Python data libraries, SQL, and data processing techniques. Certified in OCI Foundations and AWS Cloud fundamentals. Currently pursuing Microsoft Fabric Data Engineer Associate certification to enhance data engineering capabilities.

Education

Bachelor of Science in Information Technology

North-West University

Completed: 2025

Relevant Coursework: Data Analytics, Data Structures and Algorithms, Databases, Decision Support Systems, Artificial Intelligence, System Analysis and Design

Technical Skills

Data Engineering: Data Analytics, Extract Transform Load (ETL) Processes, Data Pipeline Development, Data Mining

Programming Languages: Python, Java, SQL

Data Tools: Pandas, NumPy, Matplotlib, Oracle Database

Cloud Platforms: Amazon Web Services (AWS), Oracle Cloud Infrastructure (OCI)

Databases: SQL, Oracle, Database Design, Database Management Systems

Soft Skills: Analytical Thinking, Problem-Solving, Team Collaboration, Communication

Certifications

Oracle Cloud Infrastructure 2025 Certified Foundations Associate

Oracle | Issued: September 2025

<https://catalog-education.oracle.com/ords/certview/sharebadge?id=1B02C0C0A6F570252AF6BDF16C96376FB9ECE9A430E5F39CF8F17BF96B55DE0B>

AWS Educate Introduction to Cloud 101

Amazon Web Services | Issued: August 2025

https://www.credly.com/badges/567425a2-7b86-4b97-8876-2e8e19899196/linked_in_profile

Microsoft Fabric Data Engineer Associate (In Progress)

Expected Completion: 2025

Projects

Anti-Money-Laundering (AML) System

Personal Project | 2025

- Developed batch processing platform for transaction monitoring and pattern detection
- Implemented data analysis pipelines for money laundering detection using Python and SQL
- Created compliance reporting system using ETL processes and data processing techniques
- Applied data mining techniques to identify suspicious transaction patterns

Healthcare Access Smart Appointment System Backend

Academic Project | 2025

- Built data management system for appointment scheduling and healthcare access optimization
- Implemented backend data processing for efficient booking system using Python
- Developed optimized data structures for student healthcare service management
- Designed database schema for appointment tracking and patient record management

Work Experience

Data Engineering and System Development Projects

Independent & Academic Projects | 2022 - 2025

- Applied data mining techniques and statistical analysis in personal and academic projects
- Implemented Artificial Intelligence (AI) algorithms and machine learning concepts for data-driven solutions
- Developed data-driven decision support systems using Python, SQL, and cloud technologies
- Created data visualization dashboards using Matplotlib and analytical reporting tools

Languages

English (Fluent) | IsiZulu (Fluent) | SeSotho (Fluent)