

Kamohelo Maphela

Phone number: +27734757506

Email address: kamohelomaphela04@gmail.com

Linkedin: linkedin.com/in/kamohelo-maphela-054a5a230

Portfolio: kamohelo02.github.io/Software-Engineer-Web-Portfolio/

Professional Summary

Versatile technology professional with a strong foundation in Software Engineering and Data Engineering. Experienced in designing cloud-based systems and data pipelines using AWS, Azure, Databricks, and Snowflake. Skilled in full-stack development, ETL processes, and data visualization.

Technical Skills

Languages: Python, Java, C++, C#, SQL, HTML, CSS.

Cloud & Data: Databricks, AWS, OCI, Microsoft Azure, Snowflake, Delta Lake.

Frameworks/Tools: ASP.NET, .NET, Git, Pandas, NumPy, Matplotlib, Plotly, Dash, pytest, Selenium.

Engineering: ETL, Data Pipelines, Medallion Architecture, RESTful APIs, Agile, CI/CD.

Education

Bachelor of Science in Information Technology | North-West University | Completed: 2025

Relevant Coursework: Data Structures & Algorithms, Artificial Intelligence, Databases, Web Development, System Analysis & Design.

Certifications

Quantum: Software Engineering Job Simulation (2026).

Databricks: Knowledge Badge – Get Started with Databricks for Data Engineering (2026).

Oracle: OCI 2025 Certified Foundations Associate (2025).

AWS: Educate Introduction to Cloud 101 (2025).

Projects

Hotel Analytics Platform (End-to-End Engineering)

Implemented a complete data engineering pipeline using Snowflake.

Built a **Medallion Architecture** (Bronze-Silver-Gold) to transform raw booking data into business insights.

Developed interactive dashboards to answer critical business questions.

Soul Foods Sales Dashboard & Analytics (Quantum Project)

Developed an ETL pipeline to clean and merge transaction data for the Pink Morsels line.

Built an interactive Dash dashboard with Plotly for trend analysis.

Implemented automated testing using **pytest** and **Selenium** for CI/CD.

Anti-Money-Laundering (AML) System

Developed a **batch processing platform** in Python and SQL to monitor suspicious transaction patterns.

Designed a scalable backend for compliance reporting and a UI for transaction review.

Healthcare Access Smart Appointment System

Created a RESTful backend for the NWU Health Centre to streamline booking processes.

Integrated a DBMS for patient records and applied data-driven decision support systems.

Software Engineering Practices Demo & Web Portfolio

Created a demo repository showcasing real-world engineering workflows and best practices.

Designed a responsive portfolio website using HTML, CSS, and JavaScript to showcase projects, deployed via GitHub Pages.

Languages

English , IsiZulu , SeSotho.
