Kamohelo Maphela

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

Professional Summary

Versatile and motivated technology professional with a strong foundation in both software engineering and data engineering. Experienced in cloud platforms including AWS, Oracle Cloud Infrastructure (OCI), and Microsoft Azure. Skilled in object-oriented programming, full-stack development, data pipeline construction, ETL processes, and cloud-based system design. Certified in OCI Foundations and AWS Cloud fundamentals. Currently pursuing Microsoft Fabric Data Engineer Associate certification to enhance data engineering and cloud solution development in the Microsoft ecosystem.

Education

Bachelor of Science in Information Technology
North-West University | Completed: 2025
Relevant Coursework:
Object-Oriented Programming, System Analysis and Design, Data Analytics, Data Structures and Algorithms, Databases, Web Development, Artificial Intelligence, Decision Support Systems, Operating Systems, IT Development Methodologies

Technical Skills

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

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

Frameworks & Tools: ASP.NET, .NET Framework, Git, Pandas, NumPy, Matplotlib

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

Software Development: Full-Stack Development, System Analysis, RESTful APIs, Agile Methodologies

Data Engineering: ETL Processes, Data Pipeline Development, Data Mining, Data Analytics, Data Visualization

Systems & IT Development: Operating Systems Concepts, IT Development Lifecycle, System Architecture, Process Management

Certifications

Oracle Cloud Infrastructure 2025 Certified Foundations Associate
Oracle | Issued: September 2025
[Oracle Cloud Infrastructure 2025 Certified Foundations Associate](#)

AWS Educate Introduction to Cloud 101
Amazon Web Services | Issued: August 2025
[AWS Educate Introduction to Cloud 101 - Training... - Credly](#)

Microsoft Fabric Data Engineer Associate
In Progress

Projects

Anti-Money-Laundering (AML) System

Personal Project | 2025

- Developed a batch processing platform to monitor customer transactions for money laundering patterns using Python and SQL.
- Built a scalable backend architecture for transaction analysis and compliance reporting.
- Implemented ETL processes and data mining techniques to identify suspicious transaction patterns.
- Designed a user interface for compliance officers to review flagged transactions.

Healthcare Access Smart Appointment System Backend

Academic Project | 2025

- Created a smart appointment booking system for the NWU Health Centre using Python and RESTful backend architecture.
- Streamlined booking processes by implementing efficient algorithms and optimized data structures.

- Integrated a database management system for patient records and appointment tracking.
- Applied data-driven decision support systems to improve healthcare service coordination.

Software Engineer Web Portfolio

Personal Project | 2025

- Designed and developed a responsive personal portfolio website using HTML, CSS, and JavaScript.
- Showcased software engineering and data engineering projects with interactive demonstrations.
- Implemented clean, maintainable code following web development best practices.
- Deployed using GitHub Pages for continuous integration.

Languages

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