ACWENGILE MORRIS

SOFTWARE / DATA ENGINEER

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PROFILE

Software and Data Engineer with a security-first mindset, specializing in building scalable systems and secure data pipelines. Experienced in Java, Python, SQL, ETL, and cloud platforms (Azure/GCP), with applied skills in vulnerability assessment, secure coding, and system lifecycle analysis. Combines backend development and data engineering expertise to deliver reliable, efficient, and secure solutions.

EDUCATION

WeThinkCode_
NQF 6 Software Engineering   **2024 - 2025**

- Programming languages: Python, Java, HTML & CSS , Javascript
- Relevant Modules: System Analysis and Design, Software Testing, Deployment, Agile, DevOps, CI/CD, Data Engineering
- **Specialized Elective**: Data Engineering – Officially completed Jan 2026
- Data Engineering Elective Focus: ETL pipelines, distributed storage (HDFS, Amazon S3), relational & NoSQL databases, Docker containerization, batch/stream processing (Apache Spark, Kafka), workflow orchestration (Apache Airflow)
- Relevant Modules: Python, SQL, System Analysis, Data Modeling, DevOps, Agile

Ekurhuleni West College
IT Certificate (NQF Level 4)   **2024 - Incomplete**

- Programming Fundamentals, Electronics, Entrepreneurship

PROJECTS

- TaxiFind: Safe Transport Point Navigation for Gauteng Project Overview This report proposes TaxiFind, a dedicated mobile application designed to address the severe transport safety deficiencies in Gauteng, particularly the high vulnerability of pedestrians navigating to public transport pickup points. The app's core value is to transform the most dangerous part of the public transport journey the walk to the pickup point into the safest, utilizing localized safety data, community reporting, and low-data design principles. The Problem Statement The challenge is not the availability of taxis, but the fact that the digital and physical environment of transport access is hostile, unsafe, and unreliable. Users are often unable to find established, safe transport points (like taxi ranks) and are forced onto walking routes that expose them to disproportionate risks due to poor infrastructure and crime.
- Cyber Quest is an interactive, game-based platform that transforms online safety lessons into engaging challenges and quests. Key features include engaging mini-games, practical lessons, interactive scenarios to test knowledge, and comprehensive progress tracking. This blended approach makes learning both fun and impactful.

Core Competencies & Technical Skills

- Security: Cloud Security (Azure, GCP), Secure Coding Practices, Vulnerability Assessment, Attack Surface Analysis, Network Defense Principles, Ethical Hacking Fundamentals, Log Analysis
- Software Development: Java, Python, Object-Oriented Programming (OOP), System Design
- Data Engineering: SQL, ETL/ELT Processes, Database Management, Data Pipeline Optimization, Cloud-Based Data Storage
- Methodologies & Mindset: Full System Lifecycle Analysis, Risk Identification, Scalable Architecture, Problem-Solving, Analytical Thinking