SHALOM IKWUEMESIM

ASPIRING DATA ENGINEER

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PROFILE SUMMARY

BCom Information Systems graduate of UWC (completed 2026) aiming for data engineering, with **2** years of SQL and hands on Python. Built a Python pipeline from **5** Oracle APEX REST endpoints into a dashboard, connected an AI chatbot to a ticketing system through **20+** API calls, and tested projects with **33** documented tests and **37** requirement checks. Led teams of **5** on two client projects and a hackathon. Seeking a data engineering role to build reliable, well tested data pipelines.

EDUCATION

University of the Western Cape *Completed 2026, graduating April 2027*
Bachelor of Commerce in Information Systems
Relevant coursework: Capstone Project (IFS 325: Infobip, Ivanti), Enterprise Architecture (IFS 317), Emerging Trends in Information Systems (IFS 315: SQL, Python, Oracle APEX), Statistics (STA211, STA221: SAS OnDemand)

AREAS OF EXPERTISE

Data engineering: SQL (joins and aggregations), Python (basics, Matplotlib), REST APIs and JSON, Python data pipeline, Data validation, Data preprocessing, Excel, Oracle APEX
Quality and governance: Testing and validation, Requirement checks, User acceptance testing, Technical documentation, POPIA, Ticketing and issue tracking (Ivanti)
Platforms and tools: Firebase, Supabase, Infobip, Ivanti Neurons (ITSM), Git and GitHub, Google Gemini, Local LLMs (Ollama)
Currently learning: Azure data fundamentals (DP 900), Databricks, JavaScript, Next.js
Delivery: Requirements gathering, Agile sprints, Stakeholder management, Process mapping (BPMN), Microsoft Office
Strengths: Attention to detail, Analytical thinking, Ownership, Eager to learn, Team leadership

PROJECT EXPERIENCE

Oracle Sales Data Dashboard & Local AI Assistant (Investor Case Study) 2026
Developer & Analyst, Paired Project | Final Grade: 81.4%
- Built a Python pipeline that extracts data from **5** Oracle APEX REST endpoints and feeds an executive dashboard of **5** Matplotlib charts on revenue, sales trends, stock, orders and top customers.
- Added request timeouts and error handling for failed or invalid responses, and split the code into **4** modules (config, data fetching, charts and main) so each part can be changed on its own.
- Built a local AI assistant (Qwen 3.5 9B through Ollama) that answers from the company's own data only, with guardrails that stop it from inventing numbers, and presented the design in a **10** minute video.

G6 IT Support: AI Service Desk Chatbot and Dashboard for a Software Company 2026
Project Manager & System Developer | Final Grade: 83%
- Led a team of **5** to replace lost IT requests across WhatsApp, Teams and email in **10 weeks**, turning the client's requirements into sprint tasks and finishing with a final grade of **83%**.
- Connected an AI chatbot on Infobip to the Ivanti ticketing system through **20+** API calls, so every chat is logged as a real incident or service request, created in **8 seconds**.
- Passed all **33** documented tests and user acceptance testing with students and the client, after building a backup search and a second email service for when tools ran out.
- Built a dashboard for IT technicians and the CIO that combines ticket and chatbot data in charts, with sign in by role.

MQ Tutors AI Assistant: Enrolment Chatbot & Owner Dashboard for a Local SMME Tutoring Business 2026
Group Leader & Technical Lead | Final Grade: 84%
- Led a team of **5** to deliver an AI enrolment assistant and owner dashboard for a registered tutoring business on Firebase and Google Gemini, scoring **87%** for the system.
- Built a price guard that checks every price the AI gives against the official price list and blocks anything not on it, so customers never see a wrong price.
- Tested with **33** automated tests, **37** requirement checks and about **20** adversarial attacks, fixed the one failure found, and built POPIA compliance in with consent before data collection and scheduled deletion.

RFQ Tracker, Quote Desk and 90 Day Plan for a Cape Town Construction Start Up (Hackathon) 2026
Operations & Business Analyst | 5 Day Team Hackathon

- Built a **10** tab Excel RFQ Tracker that prices every RFQ automatically at a lowest quote (**10%** margin) and a comfortable quote (**25%** margin), and flags whether the buyer's price is below cost, below range, inside range or above range.
- Built the Quote Desk prototype in HTML, CSS and JavaScript with sample data, taking a user from RFQ inbox to quote builder with VAT toggle, letterhead preview and PDF download.
- Designed the tracker's data for **100** RFQs, **300** product lines and **60** suppliers with a migration path from Excel to Airtable to Supabase, and wrote a **12** page walkthrough so a non technical user can set it up in **10** minutes.
- Led most team meetings and the client meetings, interviewed a real client, agreed a smaller scope with one clear first step, then produced a **37** page hand off document with a 90 day plan to win the first tenders (January to March 2027) and a weekly scorecard of **5** numbers.
- Checked the team's plan against what the client said, corrected the VAT threshold and flagged a cash constraint, then presented the plan and the tools to the client on the final day.

WORK EXPERIENCE

Community Manager and Lead Moderator, NFT Projects 2021 to 2022
Freelance, paid

- Managed communities with a combined reach of **50,000+** across **5** NFT projects, **2** of which became successful launches, through announcements, giveaways and outreach.
- Led moderation as head moderator for KureijiNFT, growing it to **20,000** members and **40,000** followers through daily engagement and brand partnerships.
- Built the brand identity and outreach for Spacoid up to **5,000** members, and turned member feedback into giveaways, events and updates that kept engagement high.

LEADERSHIP EXPERIENCE

Group Leader, UWC Final Year Group Projects 2026
*Led **two separate teams of 5** while carrying the main technical build, tracking contributions and deadlines fairly, polishing every submission into one package and producing the demo video shown to the client.*

Residence Leader and Peer Facilitator 2025
*Hosted major residence events for **900+** people by planning with a team, marketing and setting up and running live sound systems.*