

KHWATSI FAITH CHAUKE

Creative Engineer | Data & Analytics

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PROFILE

Creative Engineer is not a job title — it is a philosophy. It means approaching every data problem with the same imagination a designer brings to a blank canvas, and every system build with the rigour an engineer brings to a blueprint. Practically, it means being fluent across software, data, and cybersecurity — and using that breadth to solve problems others miss.

Recently certified in Python (ALX) and Generative AI (WeThinkCode_), and currently undertaking a 15-week intensive Data Engineering core track. Brings a rare combination of database architecture skill, AI-assisted velocity, and security awareness, enabling the design of data systems that are both performant and access-controlled from day one.

CORE SKILLS

- **Data Engineering & ETL:** Python (Pandas, NumPy), PostgreSQL, SQL (schema design, constraints), Data Wrangling
- **Business Intelligence:** Microsoft Power BI, DAX, Power Query, Data Modeling (ERD), Visual Storytelling
- **AI & Workflow:** Prompt Engineering, LLMs, AI-Assisted Development (WeThinkCode_ Certified)
- **Backend & Security:** Database Security, Row Level Security (RLS) enforcement, Threat Analysis
- **Version Control & Web:** Git/GitHub, Vercel, React, Vanilla JavaScript

PROJECTS & TECHNICAL EXPERIENCE

Data Architect & Analyst — Maji Ndogo Resource Analytics *End-to-End Data Pipeline & BI Dashboard*
PostgreSQL · Python (Pandas, NumPy) · Power BI · DAX

- Architected an end-to-end ETL pipeline transitioning thousands of highly unstructured survey records into a fully normalized PostgreSQL database (3NF), ensuring strict data integrity.
- Engineered automated data cleaning and feature engineering scripts using Python to impute missing values and calculate dynamic risk scores based on population dependency and pollution levels.
- Designed an interactive, executive-level Power BI dashboard utilizing DAX and Power Query, enabling stakeholders to optimize simulated infrastructure budgets and target critical provinces in real-time.

Lead Technical Architect — Fade Republic Booking Platform *Full-Stack Database Architecture*
React · Supabase · PostgreSQL · Tailwind CSS | Live: fade-republic.co.za

- Engineered database schemas with strict integrity constraints and Row Level Security (RLS) policies to govern appointment scheduling, customer profiles, and admin-only data access.
- Built serverless Edge Functions that trigger on new bookings, automating email confirmations and WhatsApp alerts via external APIs — removing manual admin intervention from the data flow.
- Deployed via Vercel with custom domain routing, demonstrating end-to-end ownership from schema design to production infrastructure.

Systems Engineer — Khwatsi Krafts E-Commerce *End-to-End Digital Infrastructure Project*

SQL · Python · Payfast · Yoco

- Built and managed the complete digital infrastructure for a live custom product storefront, maintaining data governance over sensitive transaction records.
- Applied SQL and Python to structure inventory data, automate reporting logic, and derive KPIs to inform product and pricing decisions.

EDUCATION & CERTIFICATIONS

ALX Africa — Data Engineering Track

September 2025 – Present

- **Data Engineering Core:** Currently in progress (15-week intensive programme).
- **Python for Data Engineering:** Completed (Certificate Awarded July 2026).
- **Data Analysis & Professional Foundations:** Completed (Certificates Awarded).

WeThinkCode_ — Mastering Gen AI for Software Developers

Completed July 2026

- Competitively selected; Certificate Awarded. Focus on AI-assisted development, prompt engineering, and workflow automation.

Cisco Networking Academy — Tech Fundamentals

Expected Completion: Aug 22, 2026

- Completing concurrent, structured training in Introduction to Cybersecurity, Python, and Data Science.

ALX Africa — Cybersecurity

Completed April 2026

- Certificate Awarded. Comprehensive training in threat monitoring, vulnerability assessment, and security-by-design.