

BAXOLELE MAZWI

Johannesburg, SA | 0661933064 | mazwiibaxolele@gmail.com | [linkedin.com/in/baxolelemazwi-9b2322267](https://www.linkedin.com/in/baxolelemazwi-9b2322267) | mazwiibaxolele.github.io/mazwi-portfolio

EDUCATION

University of the Witwatersrand

Feb 2023 – 2027 (Expected)

BSc Construction Studies | Johannesburg

- Final-year student; coursework spans project management, quantity surveying, structural engineering, and construction economics.

African Leadership Experience (ALX Africa)

Feb 2026 – Present

Data Engineering Specialization

- Covering data pipelines, PostgreSQL, Python for data engineering, and cloud-based data workflows.

EXPERIENCE

WITS School of Construction Economics and Management

Apr 2026 – Present

Peer Mentor | Johannesburg

- Coach first- and second-year students through structured academic sessions, leveraging data-informed feedback to track progress.
- Facilitate group workshops covering module concepts in quantities, specifications, and construction economics.

ASAQS – Association of South African Quantity Surveyors

Feb 2026 – Jun 2026

Quantities & Specifications Tutor | Johannesburg

- Delivered targeted tutoring covering bill of quantities preparation, measurement principles, and SANS standards.
- Developed practice materials using structured data sets to help students work through pricing and specification problems.

AZRA Developments

Jun 2025 – Jul 2025

Student Intern | Johannesburg

- Supported on-site delivery of roadworks and retaining wall construction, verifying compliance with technical drawings.
- Conducted GNSS and manual surveying to capture and validate site measurements across active construction phases.
- Assisted with trench preparation and traffic accommodation to maintain on-site safety standards.

Priotech Projects

Jun 2024 – Jun 2024

Student Intern | Northam, Limpopo

- Supported project coordination, progress tracking, and daily reporting; gained exposure to on-site risk and planning processes.

PROJECTS

StudyPulse: AI-Integrated Study Timer

2026

Web App | AI Integration, UI/UX | Live at study-pulse-liard.vercel.app

- Designed and shipped a study platform that combines a smart focus timer, grade tracking, and AI-driven insights in one place.
- Built to turn studying from a blind grind into a data-driven process, so students can study less and score higher.

FIFA World Cup 2026 ML Prediction Model

2026

Python | Scikit-learn, Pandas, Dixon-Coles Poisson GLM

- Built a statistical football prediction model trained on historical match data to forecast World Cup outcomes; predicted Spain as champion.
- Implemented full data cleaning, feature engineering, and model validation pipelines for a DataCamp competition submission.

Telco Customer Churn & Retention Analysis

2025

Python (Pandas), SQL, Power BI | End-to-End Data Pipeline

- Built a pipeline from raw customer data to an interactive Power BI dashboard surfacing churn KPIs, contract risk patterns, and monthly charge trends.
- Identified contract type and payment method as key churn drivers through EDA, delivering actionable retention insights.

Bank Marketing Campaign Funnel Analysis

2025

MySQL, Power BI | Conversion Funnel Dashboard

- Extracted and transformed campaign data in MySQL; built a Power BI funnel dashboard mapping lead-to-customer drop-off stages.
- Highlighted top-converting contact methods and demographic segments, enabling targeted marketing strategy decisions.

SKILLS

Data & Analytics: Python (Pandas, NumPy, Matplotlib, Scikit-learn), SQL (MySQL, PostgreSQL, BigQuery), Power BI, Looker Studio

Construction & Engineering: GNSS Surveying, Bill of Quantities, WinQS, Project Scheduling, SANS Standards

Tools & Platforms: Git/GitHub, Microsoft Excel, Jupyter Notebook, Streamlit, VS Code

CERTIFICATIONS

IBM Data Analyst Professional Certificate

IBM / Coursera

Associate Data Analyst | Associate Data Engineer | SQL Foundations

DataCamp

WinQS Quantity Surveying System

ASAQS

LEADERSHIP & EXTRACURRICULAR

CIOB Africa Novus Subcommittee – Wits

Feb 2025 – Nov 2025

Treasurer

- Managed subcommittee finances and supported financial planning of student chapter activities within a professional engineering institution.

Engineering & Built Environment Student Council (EBESC)

Feb 2025 – Oct 2025

Marketing Team Member

- Supported content creation and event promotion to engage the student body across the School of Construction Economics and Management.

Wits Community Citizenship Organisation (WCCO)

Feb 2025 – Oct 2025

Volunteer – Campus Soup Kitchen

- Contributed to food preparation and distribution serving students and community members on campus.