

Mashego Gideon Mabeloane

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EDUCATION

BSc Computer Science, University of the Witwatersrand, Johannesburg
Feb 2023 – Expected 2025

EXPERIENCE

February 2025 - Present: Computational and Applied Mathematics Tutor, University of the Witwatersrand -Guide students through university level computational and applied mathematics by providing structured, algorithmic problem-solving support and creating simplified exercises to reinforce key concepts.

- Improved students' understanding of complex mathematical concepts by using divide and conquer approach.
- Strengthened student's analytical and algorithmic thinking by delivering custom exercises.
- Increased students' engagement by creating an environment where they could freely share ideas.

January 2025 - February 2025: Data Analytics Intern, SEGEA: Quantify Your Future – Processed and cleaned financial datasets for major South African banks (FNB, ABSA, NEDBANK, Standard Bank) using Python and Excel. Performed exploratory analysis to produce visual summaries of key trends for supervisors and find features with the strongest predictive power to be used to train the model.

- Improved dataset for readability by resolving inconsistencies, missing values, duplicates and outliers using Python and Excel.
- Delivered clear visual insights to supervisor and enhanced model preparation accuracy by training model with high predictive power which I identified through exploration data analysis.
- Earned a Certificate of Completion for consistently delivering high quality work during the internship.

PROJECTS

Freelancio - A dynamic freelance marketplace connecting skilled freelancers with clients. Features include secure payments, real-time messaging, and a robust review system to ensure trust and quality.

- Improved security by implementing authentication using supabase authentication services
- Ensured seamless and instant messaging between freelancers and client by leveraging Supabase's real-time services.

Trailo – Web-Based Hiking Tracker

- Enhanced hike planning by integrating the OpenWeather API, allowing users to plan trips based on real-time weather information.
- Implemented route-planning, GPS tracking using Google Maps API, enhancing user navigation experience.

TECHNICAL SKILLS

Programming Languages: Python, C++, C, Java, JavaScript, Dart

Frameworks/Tools: React +Vite, Flutter/Dart, REST APIs, FastAPI

Database: MySQL, Supabase,

AI and Data: AI/OCR Integration, Web Scraping, EDA (Exploratory Data Analysis), Data Automation

Software Engineering: Full-Stack Development, Git.