

Chegofatjo-ya-Modimo Mawela

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EDUCATION

University of Cape Town

BSc Computer Science and Applied Statistics
Current GPA: 82.80

Cape Town, South Africa
January 2024 – Present

SKILLS SUMMARY

Languages: Python, Java, SQL, HTML, CSS

Frameworks: Pandas, NumPy, Scikit-learn, Matplotlib, PyTorch

Tools: Excel, MySQL, SQLite

Platforms: Jupyter, VS Code

Soft Skills: Communication, Teamwork, Problem-solving

WORK EXPERIENCE

CS1 Hotseat Tutor

January 2026 – Present

Department of Computer Science — University of Cape Town

- Provide academic support to all first-year Computer Science students
- Assist students with conceptual understanding, algorithm design and coursework guidance

STA1000F/S Tutor

February 2025 – Present

Department of Statistical Science — University of Cape Town

- Assist students in understanding fundamental concepts in statistics
- Support student improvement through tutorials, whiteboards and hot seats
- Collaborated with tutoring team to re-structure course layout and structure for optimal learning (2025)

CSC1015F & CSC1016S Tutor

February 2025 – December 2025

Department of Computer Science — University of Cape Town

- Facilitated weekly practical sessions in Python and Java programming
- Marked programming assignments and assessments

E-commerce store manager

March 2020 – December 2020

The Masked Magician — Etsy

- Built and scaled a dropshipping e-commerce store
- Generated nearly R65000 in 5 months

PROJECTS

Redman 3.0

March 2025 – Present

[Github Link \(results\)](#)

- Building a data-driven expert advisor for financial market instrument forecasting
- Uses human psychology (via social media scraping), news sentiment, country personas, statistical methods (Bayesian reasoning, ARIMA modeling etc.) and machine learning
- Currently in development, early version results are linked above

World Development Indicator Analyser

July 2025 – August 2025

[Github Link](#)

- Built a K-means based analyser which clusters countries into multiple personas using the World Development Indicators
- Implemented a custom Pearson correlation coefficient based initialization method
- Used a custom "running average" imputation strategy, which improved clustering performance
- Classifies countries into personas for use in investment portfolio construction alongside correlation analysis

Messaging app

February 2026 – March 2026

[Github Link](#)

- Developed a client-server messaging application using Python socket programming
- Designed and implemented a custom protocol for reliable message and file transfer
- Built client-side functionality including local message storage using SQLite for improved performance
- Supports one-on-one and group chat rooms with integrated file sharing