

TSEMOLLO RAPOLAI

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- <https://github.com/flash3105>

SUMMARY

Honours student in Statistics & Data Science at the University of Pretoria with a background in Computer Science and Statistics. Passionate about leveraging machine learning, data analytics, and software development to drive impactful solutions. Strong problem-solving skills with hands-on experience in full-stack development, financial analysis, and market forecasting. Always eager to learn. I Aspire to write CFA exams in the future.

EDUCATION

UNIVERSITY OF CAPE TOWN

2021-2024

Bachelor of Commerce in Management Studies specialization in Computer Science & Statistics

Project : Network Performance Insight Dashboard.

- Developed a full-stack dashboard using React.js (frontend), Flask (API), and MySQL (database).
- Built an ETL pipeline to extract data from M-Lab and store it locally.

Relevant courses : Statistical Modelling, Inference, Machine Learning, Parallel Programming, Databases, Data Structures & Software Engineering ,Econometrics , Time Series , Finance (Risk Analysis, Portfolio Optimization)

PROFESSIONAL EXPERIENCE

TheNetworkCo | Software Engineer

2025-present

- Developed and deployed scalable web applications using Agile methodologies, hosted on Microsoft Azure.
- Designed and maintained MySQL databases, ensuring data integrity and performance optimization.
- Collaborated with stakeholders to troubleshoot and enhance application functionality.
- Maintenance of hosted applications.

UCT EBE FACULTY | Software Engineer

2024-2025

- Developed and deployed scalable web applications using Agile methodologies, hosted on Microsoft Azure.
- Designed and maintained MySQL databases, ensuring data integrity and performance optimization.
- Collaborated with stakeholders to troubleshoot and enhance application functionality.

Rvest Fund Group | CEO & Co-Founder

2020-2024

- Led a team of six traders, developed investment strategies, and educated clients on market analysis.
- Managed a diverse portfolio, investing in stocks, bonds, and currencies. Return of 60% over 4 years.
- Created a podcast & blog focused on financial education(Banking,Pricing,Supply & Demand,etc) for South African youth.
- YouTube Link: www.youtube.com/@rvestfundgroup3534

Simple Solutions Tutors| Statistics & Computer Science Tutor

2023-2024

- Provided one-on-one tutoring for university students in Python programming and statistical theory.
- Helped students improve their problem-solving skills in real-world data applications.

SKILLS

Programming languages: Python, Java, JavaScript, C#, R, SAS & SQL

Computer software/ frameworks: Microsoft Office (Excel), Git, Unix, Power BI, React.js, Flask, .NET

Languages: English (Advanced); IsiNdebele & Sepedi (Native); Afrikaans (Intermediate)

STRENGTHS

- **Leadership, Entrepreneurship & Financial Acumen:** As President of Doxa Deo Endendale School, I led initiatives that improved student engagement and academic performance, fostering strong relationships between students and educators, which significantly increased the school's pass rate. Additionally, as Co-founder of Rvest Fund Group, I developed an online work portal, created investment strategies, and secured funding, generating substantial returns. I also managed a market insights blog, providing financial analysis and attracting a strong reader base and investors.
- **Technical Projects(MORE IN MY GITHUB REPO):**
 - **Market Analyzer for Gold:** Developed a machine learning-based platform using Python and R to analyze historical gold market data (2010 onward). Integrated APIs, statistical modeling, and SQL for efficient data storage, enabling accurate market trend forecasting
 - **Personal Finance Tracker:** Built a web-based financial management tool with secure authentication, an intuitive dashboard for income/expense tracking, and dynamic visualizations (bar graphs, pie charts). Enabled data export to Excel/PDF for comprehensive financial reporting. Developed with ASP.NET Core (backend), SQL Server (database), and Blazor (frontend) for a modern and responsive user experience.

ACTIVITIES

- **Secretary General, World Mission Society UCT:** Led volunteer initiatives, including campus clean-ups, blood drives, and awareness seminars, demonstrating strong organizational and leadership skills.
- **South African Statistical Association (SASA) Member:** Stay updated on industry trends through webinars, seminars, and data science simulations to refine technical expertise.
- **Quantify Your Future Alumni:** Participated in industry-led sessions on data analytics and AI, engaging in hands-on work simulations and research-driven learning.
- **UCT Hackathon Participant:** Applied programming and problem-solving skills in hackathon challenges, fostering innovation, teamwork, and real-world technical application.