

Pule Nxasana

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EDUCATION

University Of Pretoria

Pretoria, South Africa

2025

- B.Sc. (Hons) Computer Science
 - Research group: Digital Forensics (DigiForS)

North-West University

Potchefstroom, South Africa

2021 - 2024

- B.Sc. Mathematics and Computer Science
 - Golden-Key Honours Society (2022)

Relevant coursework: Data mining, Artificial Intelligence, Data structures and algorithms, Mathematical modelling

PROFESSIONAL EXPERIENCE

MiWay Insurance

Johannesburg, South Africa

2025

- *Actuarial Hackathon*
 - Selected to participate in the MiWay Actuarial Hackathon 2025, a competitive, week-long event focused on solving real-world insurance challenges through data-driven modelling and strategic pricing

Nedbank

Johannesburg, South Africa

2023

- *Quants Exploration Programme*
 - Was part of a team developing a data-driven property investment model, leveraging advanced analytics and quantitative risk management techniques to assess investment viability.
 - Analysed real-world financial and risk scenarios, enhancing quantitative problem-solving skills while collaborating with industry professionals and executives.

North-West University

Potchefstroom, South Africa

2023

- *SI Facilitator*
 - Conducted structured review sessions for groups of up to 30 first year Computer Science students, reinforcing key concepts and enhancing exam preparedness.
 - Provided one-on-one and group academic support, helping students develop effective problem-solving strategies and improve overall course performance.
 - Enhanced student engagement by introducing interactive learning techniques, leading to a higher retention rate and increased participation in study sessions.

North-West University

Potchefstroom, South Africa

2023

- *Student Assistant*
 - Collaborated with two faculty members to enhance academic efficiency.
 - Graded approximately 100+ Mathematics and Applied Mathematics first year assignments, quizzes, and tests per week, ensuring accurate assessment and timely feedback to students
 - Maintained detailed and organized records of student performance, improving data accessibility and academic tracking for over 100 students.

SKILLS AND CERTIFICATES

- **Skills:**
 - Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras)
 - AWS (EC2, S3, RDS)
 - PostgreSQL, MySQL, SQL ServerGit
 - MATLAB (Statistics Toolbox, Machine Learning Toolbox)
- **Certificates:** Deloitte data analytics job simulation, AWS data analytics and databases

ADDITIONAL INFORMATION

- **Interests:** Cooking, Amateur astronomy, football, video games
- **Projects:** Genetic programming for symbolic regression: Predicting vineyard grape yield, Credit card fraud detection