

# Pule Nxasana

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## EDUCATION

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<b>University Of Pretoria</b>	<b>Pretoria, South Africa</b>
● B.Sc. (Hons) Computer Science	2025
○ Research group: Digital Forensics (DigiForS)	
<b>North-West University</b>	<b>Potchefstroom, South Africa</b>
● B.Sc. Mathematics and Computer Science	2021 - 2024
○ Golden-Key Honours Society (2022)	

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

## PROFESSIONAL EXPERIENCE

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<b>MiWay Insurance</b>	<b>Johannesburg, South Africa</b>
● <i>Actuarial Hackathon</i>	2025
○ 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	
<b>Nedbank</b>	<b>Johannesburg, South Africa</b>
● <i>Quants Exploration Programme</i>	2023
○ 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.	
<b>North-West University</b>	<b>Potchefstroom, South Africa</b>
● <i>SI Facilitator</i>	2023
○ 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.	
<b>North-West University</b>	<b>Potchefstroom, South Africa</b>
● <i>Student Assistant</i>	2023
○ 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

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

## ADDITIONAL INFORMATION

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● <b>Interests:</b> Cooking, Amateur astronomy, football, video games
● <b>Projects:</b> Genetic programming for symbolic regression: Predicting vineyard grape yield, Credit card fraud detection