

# Mbuyelo Mboweni

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Motivated BSc IT student with hands-on experience in software development, automation, networks, and databases. Solid foundation in full-stack development, client-server systems, and scripting. A Fast learner with a passion for coding, problem-solving, and simplifying complexity. Seeking an entry-level role to contribute to real-world projects in a collaborative environment.

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## EDUCATION

Bachelor of Science in Information Technology

North-West University Potchefstroom | 2023 – 2025 (Expected) | GPA: 67%

- Courses: Data Structures & Algorithms, Software Development, Systems Design, Operating Systems, Web Technologies, AI, Computer Networks
- Built technical foundation in software development life cycle, database management (SQL), UI programming, teamwork, and ethical development.

LYTTELTON MANOR HIGH SCHOOL | NATIONAL SENIOR CERTIFICATE (BACHELOR) | 2018 – 2022

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## EXPERIENCE

### Peer Academic Support (February 2023 – Present)

- Tutored students in Python and IT modules through one-on-one and group sessions
- Debugged code, clarified core concepts, and built custom learning tools
- Academic Advisor at North-West University Potchefstroom for Green Meadows Residence (2025).

### Technical Support and development (2023 – Present)

- Developed user interface programs and full-stack mini-projects using Python, C#, HTML/CSS
- Applied object-oriented programming and data structures in practical contexts

### Certifications & Courses (2024)

- Completed CISCO Introduction cybersecurity and networking basics.

### IT Learnership - Stadio Centurion (15 July – 19 July 2024)

- Gained hands-on experience in network management, server control, and database administration
  - Observed and supported daily IT operations in a business environment
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## SKILLS

- Languages: Python, C++, C#, JavaScript
- Database Management: SQL, MongoDB, Firebase
- Web Development: React, HTML, CSS, Git, Api integration

- Attention to detail

- Leadership

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## PROJECTS

### **ARCADEMIA GAMEJAM (GAMEMAKER, BLENDER, PHOTOSHOP)**

- Created a winning submission for the 2025 Arcademia Game Jam in 48 hours
- Collaborated with peers to build a computer networking themed top-down shooter game.

### **AUTOMATED UNIVERSITY LOGIN BOT (PYTHON, SELENIUM)**

- Created automation program that securely logs into the NWU eFundi portal for each browser
- Handled session management, password security, and navigation
- Streamlined daily academic access through efficient scripting and increased productivity by 25%

### **CHARTING PLATFORM and AUTOMATED TRADING BOT (PYTHON, MONGO DB, METATRADER 5 API)**

- Led a full-featured charting platform using real-time price data from an external API Meta Trader 5
- Worked on design, logic and implemented Mongo database connectivity, and visualized real-time API data
- Demonstrated leadership, resilience and full-stack development ability

### **WEB DEVELOPMENT (REACT, FIREBASE, NODE.JS, HTML AND CSS)**

- Contributed to the development of a real-time messaging app using **React** for frontend and **Firebase** for backend services (authentication and cloud storage).
- Gained experience in collaborative Git workflows, version control, and agile planning.
- Implemented key features including user authentication, chat functionality, and group messaging.

### **SERVER-CLIENT COMMUNICATION SYSTEM (C++, PYTHON)**

- Developed a bi-lingual multi-threaded client-server applications using socket programming
- Implemented secure communication with encryption and decryption of messages
- Applied thread management, logging, and debugging to ensure performance and stability

### **DESKTOP UI APPLICATIONS (PYTHON & C# WITH SQL)**

- Developed GUI-based applications with backend SQL database support
- Enabled user interaction, data input, output and validation

### **ADVANCED WEB SCRAPING & AUTOMATION (PYTHON, SELENIUM)**

- Created automation scripts for dynamic web scraping
  - Handled HTTP requests, proxies, and site-specific challenges
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## **REFERENCES**

Dr. Linda Redelinghuys

Lecturer - North West University, Potchefstroom

Expertise - Database and software Development Methodologies

[linda.redelinghuys@nwu.ac.za](mailto:linda.redelinghuys@nwu.ac.za)