Thokozani Mohapi Donald

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Career Objective

I am a final-year Information Technology student at North-West University with a strong passion for data science and software development. I began my journey with foundational training in Python, C++, C#, and Java, and I am now expanding my expertise through independent learning in advanced Python, SQL, and front-end development. My goal is to apply analytical thinking and coding skills to real-world problems as a Data Scientist, while continuing to grow as a creative and self-driven developer.

Education

BSC in Information Technology
North-West University (NWU)
Expected Graduation: May 2026

- **First Year (Basics & Fundamentals):**
  Python (Intro to Programming), Excel, C++ (Structured Programming), C# (UI Development)

- **Second Year (Intermediate):**
  Java (Object-Oriented Programming), C# (Web Development), System Design, Data structure

- **Third Year (Current):**
  Databases, AI Fundementals, Decision support, Networks

- **Self-Learning:**
  HTML, CSS, JavaScript, SQL, Advanced Python, Data Science Foundations

- **Special Interests:** Data Analytics, Machine Learning, Web Applications

- **Achievements:** High school dedication awards, leadership in sport

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Technical Skills

- **Programming Languages:** Python (Beginner–Intermediate), C++, C#

- **Web Development:** HTML, CSS, JavaScript (Learning)

- **Databases:** SQL (Learning), Microsoft Excel

- **Tools:** Git, GitHub, Visual Studio, NetBeans

- **Soft Skills:** Self-learning, Problem-solving, Leadership, Team Collaboration

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Projects

1. Virtual Portfolio Website *(In Progress)*

- Creating a personal website using HTML, CSS, and JavaScript
- Includes sections: About Me, Projects, Resume, Contact
- Showcases growth in front-end development and personal branding

2. Lotto Star Simulation (Python)

- Developed a terminal-based Lotto Star game
- Allows users to choose numbers, compares them to random winning numbers
- Uses Python's random module, sets, and conditionals for results and prize logic
- Demonstrates practical use of loops, input validation, and basic probability logic

3. Sudoku Solver (Python)

- Built a backtracking algorithm to solve Sudoku puzzles
- Validates and solves 9x9 boards with zeros as placeholders
- Strengthens understanding of recursion, constraint logic, and algorithm efficiency

4. Group Full-Stack Website

- Team-based development of a full-stack web app
- Using GitHub for collaboration and version control
- HTML, CSS and JavaScript used for backend and frontend features
- Used MySQL for database storing

5. Coin Toss Game (Python)

- Created a simple heads-or-tails game using random.choice()
- User selects heads or tails, system tosses a virtual coin and shows the result
- Demonstrated beginner use of control structures, input/output, and probability simulation

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Volunteer & Leadership Experience

Community Street Cleaning Volunteer

- Helped organize and participate in community clean-up projects

- Developed sense of responsibility and teamwork

Founder – High School Soccer Team

- Started and led a team from scratch due to a lack of extracurriculars

- Gained leadership, organization, and initiative skills

Certifications

Currently pursuing online certifications in:

- Advanced Python

- SQL for Data Analysis

- Web Development Fundamentals

References

Available upon request.