





NTUTHUKO MAPHALALA

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PROFESSIONAL SUMMARY

- I graduated with a BSc in Computer Science and IT and practical experience in data analytics, reporting, and automation across finance-related environments. Proficient in SQL, Python, R, and Excel for data collection, cleaning, and analysis. Skilled in building dashboards with Power BI and Tableau to uncover trends and support decision-making. Known for strong problem-solving skills, attention to detail, and collaboration across departments. Eager to contribute to data-driven financial insights in a dynamic team.

CORE SKILLS

- Data Analysis: SQL, Python, R, and Excel
- Data Visualization: Power BI, Tableau, and Excel Charts
- Database Management: Data cleaning, integration, Sharepoint, and reporting
- Programming & Scripting: Python, R, Java, C++, C#, JavaScript
- Tools & Platforms: Microsoft PowerApps, Microsoft Powerflow, Microsoft Azure, GitHub, and Jupyter Notebook
- Soft Skills: Analytical thinking, Communication, Attention to detail, and Team collaboration

EDUCATION

Bachelor of Science in Computer Science and Information Technology

University of KwaZulu-Natal, Pietermaritzburg | May 2023

- Focus on software engineering, database systems, and cloud technologies
- Developed financial reporting tools and dashboards during academic projects

PROFESSIONAL EXPERIENCE

Data and IT Development Specialist

Data & IT Development Specialist

Institute for Commercial Forestry Research (ICFR) | August 2024 – Present

- Designed and optimized data workflows using Python, SQL, and Excel
- Created Power BI dashboards and automated Excel reports to summarize key financial metrics
- Collaborated with researchers and technical teams for data accuracy and reporting






Business & Data Analyst

Afrika Tikkun Services – BMW YES Programme | March 2024 – July 2024

- Processed and optimized 900+ student records in SA-SAMS, reducing errors by 10%.
- Implemented SQL-based data validation scripts for performance tracking.

- Developed cloud-based applications and improved Azure cost efficiency by 15%.
- Designed CI/CD pipelines for automated deployment and system optimization.

PROJECTS & INNOVATIONS

- Personal Portfolio Website: Built a responsive site using HTML, CSS, and JavaScript
 <https://ntuthukomaphalala.github.io/portfolio/>
- TechGuard IT Solutions: Developed an IT services platform with cloud and web integration
 <https://ntuthukomaphalala.github.io/techguard/>
- ICFR Automation Solutions: Integrated smart device workflows using Home Assistant.
- Microsoft Copilot AI Coaching Bot: Built an AI-powered coaching assistant chatbot using Microsoft Azure and OpenAI technologies
 <https://ntuthukomaphalala.github.io/ai-coaching-bot/>
- Inspection PowerApps Project: Designed a PowerApps tool to streamline field inspection processes
 [PowerApps Inspection Tool \(requires Microsoft login\)](#)
- GitHub Portfolio: Showcases additional software development projects
 <https://github.com/ntuthukomaphalala>

CERTIFICATIONS

- Tableau 2024.1: Essential Training – LinkedIn Learning (2025)
- Power BI Essential Training – LinkedIn Learning (2025)
- Introduction to Data Science – LinkedIn Learning (2025)
- Data Visualization with R – Cognitive Class (2024)
- R for Data Science – Cognitive Class (2023)
- Azure Cloud Architect – Deviare (2023)
- R for Data Science – Cognitive Class (2023)

REFERENCES

Available upon request.