

NTUTHUKO MAPHALALA

Pietermaritzburg | [LinkedIn](#) | [GitHub](#) | [Portfolio](#) | [Website](#) | ntuthukomaphalala4@gmail.com | 0722527328

OBJECTIVE

Detail-oriented Computer Science and IT professional with a strong foundation in data analysis, cloud computing, and IT solutions. Proven experience in managing and analyzing complex datasets, optimizing workflows, and designing innovative technology-driven solutions for environmental and business challenges. Adept at leveraging analytical, programming, and problem-solving skills to deliver impactful results. Seeking a data-driven role where I can contribute to informed decision-making, enhance operational efficiency, and drive meaningful outcomes through technology.

SKILLS AND ABILITIES

Technical Skills

- **Data Management:** R, SQL, Excel, Database Management, Data Analytics, Data Science
- **Web Development:** HTML & CSS, JavaScript
- **Programming Languages:** Python, Java, C++, C#
- **Integrated Development Environments (IDEs):** Jupyter Notebook, Visual Studio Code, Android Studio
- **Cloud Computing:** Azure, Virtualization, Containerization
- **Operating Systems:** Windows, MacOS, Ubuntu
- **Data Visualization & Reporting:** Excel, R, Power BI, Tableau
- **Tools:** Git, GitHub, SA-SAMS, Home Assistant

Soft Skills

- Problem-Solving, Communication, Collaboration, Analytical Thinking, Critical Thinking, Adaptability, Time Management, Continuous Learning, Teamwork
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EDUCATION

Bachelor of Science in Computer Science and Information Technology
University of KwaZulu-Natal | Pietermaritzburg | *May 2023*

- Developed core technical skills in data structures, database management and algorithms.
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PROFESSIONAL EXPERIENCE

Data and Information Technology Development (Eucalyptus Tree Improvement Project)
Institute for Commercial Forestry Research (ICFR) | Pietermaritzburg
August 2024 – Present

- Engineered data analysis workflows using R and Excel, resulting in 20% improved data accuracy
- Generated insights and created data reports to support research teams, enhancing decision-making processes

BMW YES Programme

Afrika Tikkun Services | Pietermaritzburg

March 2024 – July 2024

- Managed over 900 student records using SA-SAMS, achieving a 10% reduction in data processing time
- Gained hands-on experience in data cleaning, organization, and preliminary analysis

Azure Cloud Architect Apprentice

Deviare | Pietermaritzburg

September 2023 – March 2024

- Strategically optimized resource allocation on Azure, reducing cloud expenses by 15%
- Strengthened analytical skills by managing large data sets and creating performance reports

CERTIFICATIONS

- **Tableau 2024.1: Essential Training** - LinkedIn Learning (Issued: 2025)
- **Learning REST APIs** – LinkedIn Learning (Issued: 2025)
- **Power BI Essential Training** – LinkedIn Learning (Issued: 2025)
- **Introduction to Data Science** – LinkedIn Learning (Issued: 2025)
- **Learning Data Analytics: 1 Foundations** – LinkedIn Learning (Issued: 2025)
- **Data Visualization with R** - Cognitive Class (Issued: 2024)
- **Virtual Global Apprenticeship in Cloud Computing** - Belong (Issued: 2024)
- **R for Data Science** - Cognitive Class (Issued: 2023)
- **Azure Cloud Architect** - Deviare (Issued: 2023)
- **HMS Foundation Course** - Huawei Training (Issued: 2022)
- **ICDL Profile Certificate** - Midlands Community College (Issued: 2016)

REFERENCES

Available on request