

# NTUTHUKO MAPHALALA

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## OBJECTIVE

Detail-oriented Computer Science and IT graduate with a strong foundation in data management and cloud computing. Experienced in data analysis, report generation, and IT solutions for environmental projects. I am excited to contribute analytical and programming skills in a dynamic data analytics internship, supporting data-driven decision-making and reporting.

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## SKILLS AND ABILITIES

### Technical Skills

- **Data Management:** R, SQL, Excel, Database Management
- **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, Adaptability, Time Management, Continuous Learning
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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 Intern**  
**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

**Data Management Intern – 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

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### **CERTIFICATIONS**

- **Virtual Global Apprenticeship in Cloud Computing** - Belong (2024)
- **R for Data Science** - Cognitive Class (2023)
- **Azure Cloud Architect** - Deviare (2023)
- **HMS Foundation Course** - Huawei Training (2022)
- **ICDL Profile Certificate** - Midlands Community College (2016)

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### **REFERENCES**

Available on request