NTUTHUKO MAPHALALA

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Location: Pietermaritzburg, KwaZulu-Natal

PROFESSIONAL SUMMARY

Results-driven Computer Science and IT professional with expertise in software development, cloud computing, data management, and IT infrastructure. Proficient in Python, Java, C++, and C#, with a strong foundation in data structures, algorithms, and software engineering principles. Skilled in cloud computing (Azure), data analytics, web development, and IT automation. Adept at leveraging Power BI, Tableau, SQL, and R for data visualization and reporting. Seeking opportunities to contribute to innovative technology solutions.

CORE SKILLS

- Software Development: Python, Java, C++, C#
- Cloud Computing: Microsoft Azure, CI/CD, Containerization
- Data Analytics: SQL, R, Power BI, Tableau
- Web Development: HTML, CSS, JavaScript
- DevOps: Git, GitHub, IT Automation (Home Assistant)
- Problem-Solving, Analytical Thinking, Collaboration, Communication

EDUCATION

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

PROFESSIONAL EXPERIENCE

Data and IT Development Specialist
Institute for Commercial Forestry Research (ICFR) – Eucalyptus Tree Improvement Project
August 2024 – Present
- Enhanced research workflows by 20% using R, SQL, and Power BI automation scripts.
- Integrated IoT monitoring systems to boost reporting efficiency.

Business & Data Analyst
Afrika Tikkun Services – BMW YES Programme
March 2024 – July 2024

- Streamlined 900+ student records with SA-SAMS, cutting processing time by 10%.
- Improved performance tracking through SQL and Excel data analysis.

Azure Cloud Architect Apprentice
Deviare
September 2023 – March 2024
- Reduced Azure cloud costs by 15% through resource optimization.
- Deployed CI/CD pipelines with Git/GitHub for efficient workflows.

PROJECTS & INNOVATIONS

- Personal Portfolio Website: Designed a responsive site with HTML, CSS, and JavaScript (https://ntuthukomaphalala.github.io/portfolio/).
- TechGuard IT Solutions: Launched an IT services platform with cloud and web integration (https://ntuthukomaphalala.github.io/techguard/).
- ICFR Automation Solutions: Automated smart device workflows using Home Assistant.
- 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)
- Learning REST APIs – LinkedIn Learning (2025)
- Data Visualization with R – Cognitive Class (2024)
- Virtual Global Apprenticeship in Cloud Computing – Belong (2024)
- Azure Cloud Architect – Deviare (2023)
- R for Data Science – Cognitive Class (2023)

REFERENCES

Available upon request