

Bheki Ngwenya

Software Engineer & Network Engineer
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SUMMARY

A versatile professional with a unique, hybrid background in both network engineering and full-stack software development. Leveraging a modern tech stack including Java, Node.js, React, and Docker, I excel at designing, building, and deploying robust applications with a deep understanding of the underlying network infrastructure. This dual expertise, demonstrated at CMC Networks, allows for the creation of highly optimized and resilient systems from the ground up. I am driven to apply this comprehensive skill set to solve complex technical challenges and deliver high-performance solutions.

WORK EXPERIENCE

Network Engineer & Software Developer 2023-07-01 – Present *CMC Networks, Building H, The Woodlands, Office Park, 20 Woodlands Dr, Woodmead, Sandton, 2191*

- Engineered and maintained real-time monitoring systems achieving 99.9% uptime across critical infrastructure, using Python and monitoring tools.
- Developed automated reporting dashboards reducing manual report generation time by 60% through data integration and visualization.
- Collaborated with cross-functional teams to implement security policies and anomaly detection systems, strengthening network perimeter defense.
- Led incident response and root cause analysis for critical system failures, documenting solutions and implementing preventive measures.
- Built centralized Data Lake architecture streamlining performance metrics collection and analysis across multiple systems.
- Integrated multiple service platforms (Fresh Services, PRTG, inventory systems) enabling real-time asset visibility and management.

EDUCATION

BSc in Information Technology

2022-12-01 North-West University

SKILLS

<i>Programming Languages</i>	Java, C#, Node.js, React.js, TypeScript, JavaScript, C++, Python
<i>Databases</i>	MongoDB
<i>Tools & Platforms</i>	Docker, PRTG, Fresh Services, Inventory Systems
<i>Concepts</i>	System Analysis, Network Engineering, Full-Stack Development, Data Lake Architecture, Security Policies, Anomaly Detection, Incident Response, Root Cause Analysis