Karabo Madigoe

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Versatile STEM, ICT and software development graduate with a diploma in Electrical Engineering (Computer Systems) from Vaal University of Technology. Skilled in full-stack development, embedded systems and networking. Certified in CCNA and recently completed the FNB App Academy Development program. Passionate about building real-world solutions through web development, automation, and system integration. Actively seeking learnerships, internships, or junior roles across the ICT sector.

🌐 Portfolio: https://karabo-portfolio.onrender.com
🐙 GitHub: https://github.com/Karabo-lab

Education

Vaal University of Technology   02/22 - 12/25
Dip Electrical Engineering Computer Systems

Key Modules
- Programming and Software Engineering
- ICT Systems and Digital systems
- Operating systems
- Networking and System Support
- Electronics

St Marks Comprehensive College   01/16 - 12/20
NSC - National Senior Certificate - 8-12

- Mathematics, Physical Sciences, Life Sciences
- English, Sepedi (Home language), Geography

Certifications

- FNB App Academy full-stack Development Certificate
- CCNA: Introduction to Networks - 2022

Projects

- Personal Portfolio Website
- Distributed Greenhouse Light Intensity Control System
- Online Banking System
- Networking Labs: Routing, Switching, Subnetting on Cisco Packet Tracer
- More of my projects on GitHub (https://github.com/Karabo-lab)

Technical Skills

- Programming: C, C++, Python, HTML, CSS, JavaScript
- Networking: VLANs, Subnetting, Routing Protocols, Switching, Troubleshooting
- Tools: Cisco Packet Tracer, Wireshark
- Systems: Windows, Linux

- Databases: MySQL, SQLite
- Platforms: Flask, GitHub, Render

Strengths

- Strong interest in ICT, Science, Technology and Engineering
- Quick learner and good problem-solver
- Good teamwork and communication skills
- Highly motivated and eager to gain experience

Career Goals

- To become a professional software engineer, and a full-stack developer with a strong expertise in ICT systems, embedded software, and modern web technologies. I aim to grow through continuous learning, real-world projects, and industry-level internships and graduate roles.

References

Prof Khaled Abou-El-Hossein – Executive Dean Faculty of Engineering and Technology, Vaal University of Technology
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