CODNELL CHABALALA

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Profile

Motivated Computer Systems Engineering student currently completing Work Integrated Learning as a Junior Data Scientist. Passionate about systems design, networking, cloud computing, and software development. Strong interest in applying data analysis and machine learning to solve real-world challenges. Eager to contribute to a dynamic team while developing industry-relevant skills.

Skills Summary

• Computer Hardware & Software Troubleshooting
• Programming: Python, C++, Java, HTML, PHP, C
• Database Management: SQL, MySQL
• Cloud Computing (Microsoft Azure)
• Power BI (Data Visualization & Reporting)
• Network Configuration & Maintenance
• Embedded Systems Development (ESP32, Arduino, Multisim)
• Operating Systems: Windows, Linux
• System Testing & Debugging
• Technical Documentation
• Problem-Solving & Critical Thinking
• Data Analysis & Machine Learning

Education

Diploma in Electrical Engineering - Computer Systems (2021 – 2025)
Vaal University of Technology

Experience

Junior Data Scientist (Work Integrated Learning)
Moepi Publishing | Aug 2025 – Present
• Training and hands-on experience in cloud computing, networking, data analysis, machine learning, and software development.
• Assisting in developing and maintaining data-driven applications.
• Collaborating with teams on projects involving cloud deployment and networking solutions.

Academic & Practical Training – Final Year Projects & Labs
Vaal University of Technology | Feb 2025 – Jun 2025
• Developed a full-stack web application using HTML, Bootstrap, Python, and PHP for backend logic.
• Designed and managed MySQL database for authentication and data retrieval.
• Built responsive user interfaces and connected them to backend services.
• Worked with ESP32, Arduino microcontrollers, and designed circuits using Arduino IDE & Multisim.
• Applied debugging and problem-solving in both hardware and software environments.
• Deployed applications to Microsoft Azure, gaining experience with resource groups, web app hosting, and database services.

References

L. Roos – VUT WIL Co-ordinator
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Full references and supporting documents available upon request.