CHRISTABEL NGWENYA

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28 October 2001
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Education

- **Midlands State University | Expected Completion: [June, 2025]**   **2025**
  BSc in Computer Systems Engineering
  Pending
- **Sikhulile High School**   **2020**
  Advanced Level (A-Level)
  Subjects: Pure Mathematics (A), Mechanical Maths (B), Chemistry (D), Physics (C)
- **Sikhulile High School**   **2018**
  Ordinary Level (O-Level)
  Subjects: Math (A), English (B), Biology (C), Chemistry (B), Physics (C), Pure Math (A), History (A), Geography (B), Ndebele (A)
- **Sikhulile High School**   **2018**
  Hexco Certification in Computers
  Distinction

Objective

Recent Computer Systems Engineering graduate with a strong foundation in software development, networking, and introductory data analysis. I'm passionate about applying my technical skills to real-world challenges and eager to grow in a dynamic, hands-on environment. With a genuine interest in cross-functional tech solutions, I'm looking forward to contributing to innovative projects that bridge software, network systems, and data insights.

Certifications

- Introduction to Data Science
  Cisco Networking Academy | October 2024
- Networking Basics
  Cisco Networking Academy | October 2024
- Certificate in Cyber Security
  Oxford Home Study Centre | October 2024
- Cybersecurity Foundations
  LinkedIn Learning | October 2024
- Deep Dive with Security: AWS Identity and Access Management (IAM)
  AWS | October 2024
- Fundamentals of Machine Learning and Artificial Intelligence
  AWS | October 2024

Experience

- **City Of Bulawayo**   **August 2023 - July 2024**
  Intern -IT Department
  -Repaired and maintained desktop computers, printers, and peripherals.
  - Participated in the development and testing of internal software projects.
  - Maintained and updated council websites using C sharp framework.
  - Assisted in analyzing existing systems and recommending improvements.
  - Supported local area network (LAN) setup and troubleshooting.
  - Collaborated with teams to ensure smooth operation of IT infrastructure.

Projects

- **Safe Sphere – Web-Based Safety App for Female Students**

  - Developed a full-stack web application providing:

- Counseling Services Booking
  - Anonymous Abuse Reporting
  - Whistleblowing Portal for reporting misconduct
  - Panic Button Integration for sending location to school emergency contact incase of attack
- Designed with user privacy, accessibility and with consideration of emotional safety.
- Aims to address gender-based violence and harassment in tertiary institutions.

- **Digital Certificate Issuance System**

  - Created a web-based platform for city councils to generate certificates digitally.
  - Replaced outdated handwritten certificate systems with automated templates.
  - Improved efficiency, reduced fraud, and enhanced record-keeping.

- **Smart Water Management System with Proactive Leak Detection and Real time data visualization**
  -Built using sensors and microcontrollers connected to a web dashboard.
  - Integrated real-time monitoring and alert system for leak detection.
  - Designed to reduce water wastage and improve maintenance response times.

- **Web-Based Leak Reporting Form**
  -Developed a responsive web form for community members to report leaks.
  - Backend integrated with Google Sheets and database for tracking reports.
  - Aimed at improving citizen-government collaboration.

Skills

- Programming Languages:HTML5, CSS3, JavaScript (React.js), SQL,php
- Data Analysis Tools: Python (Pandas, NumPy)
- Databases:MySql,PostgreSQL
- Networking Skills: Basic Network configuration, troubleshooting,LAN/WAN concepts
- Frameworks and Tools : Node.js ,Laravel ,Git,GitHub

Interests

- Data Analytics: Exploring datasets, visualizing trends, and deriving actionable insights using tools like Python.

- Frontend Development: Building responsive web interfaces with HTML, CSS, JavaScript, and frameworks like React.

- Cybersecurity: Staying updated on ethical hacking, network security, and best practices in threat mitigation.

- Cloud Computing: Experimenting with AWS services, serverless architectures

Reference

- **Mr C Ngwenya**
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- **Mrs T Kamasho**
  City of Bulawayo
  Web assistant
  +263772938430