

Ranwashe Muhanelwa

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<https://muhanelwa.github.io/Ranwashe-Muhanelwa-Portfolio/>

About Me

I am a passionate Computer Scientist and Web Developer with a keen interest in creating efficient, user-friendly applications that solve real-world problems. My journey in programming began with a fascination for how technology can transform lives and businesses.

With a strong foundation in computer science principles and hands-on experience in various projects, I approach challenges with analytical thinking and creative problem-solving. I believe in continuous learning and staying updated with emerging technologies.

My goal is to contribute to innovative projects that push the boundaries of what's possible with code while maintaining high standards of quality and performance.

Programming Languages

- Python
- C#
- JavaScript
- SQL
- HTML
- CSS
- MATLAB

Tools & Environments

- GitHub
- VS Code
- Visual Studio

Education

BSc Computer Science – Nelson Mandela University (2024 - Current)

Relevant Coursework: Data Structures, Algorithms, Database Systems, Web Development, Calculus

Chairperson of Word Of Life Society, a university-recognized society engaging in fellowship and creating friendships

GPA: To Be Updated

Software Development - February 2025 - Cohort VII

Power Learn Project Academy

Intensive training in modern web development technologies and practices

George Whitefield College (2025)

EXPLORE

Biblical Studies, Theology, and Leadership Training

Liivha Combined School (2015-2023)

High School Bachelor

Focused on Mathematics, Physical Sciences, Life Sciences, and Geography

Certifications

- **National Senior Certificate** – Umalusi Council for Quality Assurance in General and Further Education and Training (January 2024)
- **MATLAB Onramp** – MATLAB (April 2024)
- **Introduction to Symbolic Math with MATLAB** – MATLAB (July 2024)
- **Cybersecurity Awareness** – Nelson Mandela University (December 2024)
- **Virtual Assistance Training** – EduCourse Online Learning (December 2025)

Achievements

- **Completed MATLAB Training** – Expanded my understanding of data analysis, numerical methods, and algorithm development. Gained hands-on experience with MATLAB's powerful tools for modeling, simulation, and data visualization.
- **Academic Excellence** – Consistently maintained top academic performance throughout my educational journey.
- **Open Source Contributor** – Active contributor to several open-source projects, helping improve community resources.

Skills

- Communication.
- Teamwork.
- Problem-solving.
- Organisation.
- Time management.
- Critical thinking.
- Interpersonal skills.
- Computer literacy.

Interests

- **AI & Machine Learning** – I find it intriguing how AI can automate tasks, recognize patterns, and make smart decisions. I want to explore how machine learning can be applied in different industries.
- **Data Science and Analytics** – I like analyzing data to find patterns and insights. I want to learn how to use tools like Python, SQL, and machine learning to make data-driven decisions.
- **Software Development** – I enjoy creating applications, websites, and software solutions that solve real-world problems. Writing code and seeing it come to life excites me.

Tech Passions

- **Automation** – I am fascinated by automation; I like the idea of making processes more efficient through AI, scripting, and smart systems.
- **Innovation** – I am passionate about innovation and get excited about new technologies and how they can improve businesses, daily life, and society.
- **Cybersecurity** – I am deeply interested in application security and protective measures against emerging threats in the digital landscape.

Projects

- **Word of Life Student Church Website**

The Word Of Life website is functional and informative, providing essential details about events, services, and ways to get involved. It is user-friendly, ensuring smooth navigation for visitors. The design is clean and engaging, reflecting a welcoming and community-driven atmosphere. Overall, it serves as an effective digital platform for outreach and connection.

 - **Technologies:** HTML, CSS
- <https://muhanelwa.github.io/word-of-life/>
- **Zak's Tavern Website**

The website for Zak's Tavern is a well-designed platform that highlights the tavern's menu, events, and atmosphere. It offers easy navigation, allowing visitors to quickly find information about specials, upcoming events, and contact details. The design is sleek and user-friendly, creating an engaging experience for users. It captures the vibrant, fun atmosphere of the tavern, encouraging visitors to check out what's on offer. Overall, the website is a great tool for promoting Zak's Tavern and connecting with customers.

 - **Technologies:** HTML, CSS
 - <https://muhanelwa.github.io/zaks-tavern/>
- **Python Calculator**

A functional calculator application with basic arithmetic operations and memory functions.

- **Technologies:** Python
- <https://github.com/Muhanelwa/Basic-Calculator>

References

Available upon request.