Mufunwaini Mufhumudzi

Software Engineer | Computer Science Graduate | Passionate About Cybersecurity and Innovative Tech Solutions

mufunwa54@gmail.com | +27 65 800 9179

mufunwaportfolio.netlify.app | GitHub: MUFUNWAINI-MUFHUMUDZI-SINGO

SUMMARY

Computer Science graduate with experience as a Laboratory Demonstrator and IT Tutor, supporting student learning through hands-on guidance in programming, software development, database management, web development (HTML, CSS, PHP), and networking fundamentals. Also served as a GBV Desk Ambassador at the University of Venda, offering peer support and advocacy in initiatives addressing Gender-Based Violence on campus. Recognized for strong problem-solving, critical thinking, and communication skills, with a passion for fostering inclusive and innovative learning environments through both technical and interpersonal expertise.

CORE COMPETENCIES

- Programming (Python, C++, Java)
- Web Development (HTML, CSS, PHP, MSQL)
- Networking and Troubleshooting
- OS (Windows, Kali Linux, Ubuntu)
- Communication & Teamwork
- Database Management

WORK HISTORY

Computer Science Lab Demonstrator   University of Venda   Apr 2025 – Nov 2025

- Supported students with coding exercises and project debugging.
- Graded lab assessments and provided 1-on-1 guidance.
- Assisted undergraduate students with practical sessions in HTML, Java, and C++ programming.
- Explained theoretical concepts and guided students in debugging code and solving lab exercises.
- Collaborated with lecturers to prepare lab material and ensure smooth lab sessions.
- Promoted a positive learning environment by encouraging peer support and independent problem solving.

Information Technology Tutor   University of Venda   Feb 2024 – Nov 2024

- Conducted IT classes, teaching software applications, data management, and computer fundamentals, including Microsoft Office.
- Instructed students on the practical use of various software tools, focusing on improving technical skills and productivity.
- Invigilated exams, ensuring a fair and secure assessment environment for all students.
- Marked and assessed student scripts, providing constructive feedback to support academic development in IT subjects.

VOLUTEERING

GBV Desk Ambassador   University of Venda   Mar 2025 – Dec 2025

- Actively listened to students' concerns and offered peer support and initial counselling.
- Referred students to appropriate departments such as campus health, social work, and legal support services.
- Participated in awareness campaigns, workshops, and events to educate peers about GBV and available support systems.

EDUCATION

BSc Honours in Computer Science (2025)   University of Venda

- Modules: Grid Computing, Digital Forensics, Wireless Networks
- Research: Machine Learning-based Phishing Detection

Bachelor of Science in Computer Science & IS (2024)   University of Venda

- Graduated with 75% average
- Covered topics: Algorithms, AI, Databases, OS, Software Engineering

LICENSES & CERTIFICATIONS

- ▶ **Ethical Hacker** – Cisco Networking Academy
- ▶ **Junior Cybersecurity Analyst** – Cisco Networking Academy
- ▶ **Cybersecurity Fundamentals** – IBM
- ▶ **Python Programming** – HackerRank
- ▶ **SQL Advanced** – HackerRank
- ▶ **Software Engineer Intern** – HackerRank
- ▶ **Agile Explorer** – HackerRank
- ▶ **Moodle Instructor** – University of Venda
- ▶ **HTML Course** – SoloLearn

LANGUAGES

- **English:** Fluent – First Additional Language (FAL)
- **Tshivenda:** Native
- **Xitsonga:** Good Proficiency
- **Zulu:** Basic Understanding

REFERENCES

Mr. T. Zulu
Thulowazzizulu@gmail.com | 079 938 2846

Mr. O. Matiselele
Oscar.Matiselele@univen.ac.za | 079 599 2044

Mr. G. Dzawo
Gilbert.Dzawo@univen.ac.za | 071 168 2850

PROJECTS

Honours Research Project: Machine Learning-Based Phishing Detection Feb 2025 – Nov 2025

- Designed and implemented a phishing detection system using machine learning techniques.
- Focused on analyzing URL patterns and email header metadata to classify phishing attempts.
- Supervised by **Mr. G. Dzawo**, Department of Computer Science, University of Venda.
- **Skills:** Python, Scikit-learn, Pandas, Email Security, Feature Engineering, Cybersecurity, ML Classification

Time Management Software (TMS) Mar 2025 – Apr 2025

- Developed a web-based tool for executives to manage appointments, meetings, and tasks.
- Implemented automatic scheduling with conflict resolution and email notifications.
- Designed a graphical interface for easy daily schedule access and engagement planning.
- Supported real-time remote access for multiple users and integrated usage statistics reporting.
- **Skills:** PHP, MySQL, HTML, CSS, JavaScript, UX Design, Scheduling Algorithms

Evaluation of Information Systems (Home Affairs Website) Aug 2024 – Oct 2024

- Evaluated the South African Department of Home Affairs website focusing on usability, design, and performance.
- Proposed a redesigned version with improved UX and UI to enhance accessibility and functionality.
- Applied UX principles, HCI methods, and UI design best practices for evaluation.
- **Skills:** User Experience Design (UED), UX Research, HCI, UI Design

Accommodation Application Portal Mar 2024

- Built a web application allowing students to apply for campus accommodation online.
- Integrated admin panel to manage, approve, or reject applications and track their status.
- **Skills:** PHP, MySQL, PhpMyAdmin

Gym Management System 2023

- Developed a system for booking gym sessions, notifying instructors, and managing users.
- Enabled administrative functionality to generate session and usage reports.
- **Skills:** HTML, CSS, JavaScript, MySQL