VIRGINIA WAMAITHA MURANGA

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PROFESSIONAL SUMMARY

Computer Science student with practical exposure to IT support, software testing, and quality assurance through government internship and hands-on project development. Proficient in web technologies, version control, and systematic debugging with strong foundation in manual testing, hardware/software troubleshooting, and user support. Active member of multiple tech communities with demonstrated ability to learn new technologies quickly and work effectively in team environments. Seeking QA/QE attachment to develop automated testing expertise and contribute to software quality assurance.

EDUCATION

Bachelor of Science in Computer Science

Mt. Kenya University | Thika, Kenya

Expected Graduation: August 2026 | Currently in 4th Year

Diploma in Computer Science

Mt. Kenya University | Thika, Kenya

Graduated: December 2023 | September 2021 - December 2023

PROFESSIONAL EXPERIENCE

IT Attachment Student

Ministry of Information, Communications and Digital Economy | State Department for ICT and Digital Economy

Directorate of ICT Infrastructure | May 2023 - August 2023

- Installed, configured, and tested computer hardware, software applications, and peripherals ensuring functionality and user requirements
- Provided technical support and troubleshooting for hardware and software issues, resolving user problems systematically
- Supported and monitored network infrastructure, identifying and reporting connectivity issues and system performance problems
- Inspected and monitored ongoing ICT projects, documenting progress and identifying potential technical issues
- Conducted user training on IT applications and systems, creating documentation for end-user reference
- Performed preventive maintenance and inventory management of ICT equipment, ensuring accurate asset tracking
- Recognized for being disciplined, cooperative, adaptive, and demonstrating strong teamwork throughout attachment period

TECHNICAL SKILLS

- **Testing & QA:** Manual Testing, System Testing, Bug Identification, Code Debugging, UI/UX Validation, Documentation
- **Web Technologies:** HTML5, CSS3, JavaScript, TypeScript, Responsive Design
- **Version Control:** Git, GitHub
- **Programming:** JavaScript, Python (Flask), Java, C
- **IT Support:** Hardware/Software Installation, Troubleshooting, User Support, Network Monitoring
- **Database:** SQL, Database Design
- **AI/ML (Academic & Project Exposure):** RAG-based AI Systems, TensorFlow, Intelligent Assistants

KEY PROJECTS

Interactive Blog Platform | Personal Project

Technologies: HTML, CSS, JavaScript, Responsive Design, Git

- Designed and developed a fully responsive blog platform with structured content layout, smooth navigation, and cross-browser compatibility
- Performed extensive UI testing: responsive design validation (320px-4K displays), navigation flow testing, content rendering checks, and page load performance analysis
- Tested user interactions including click events, form submissions, and search functionality to ensure seamless user experience across all devices

File Upload Management System | Personal Project

Technologies: HTML, CSS, JavaScript, File Handling API

- Built practical file management web application addressing real-world user needs with intuitive interface design
- Implemented form validation, error handling mechanisms, and input sanitization to ensure data integrity
- Tested file upload workflows across different file types and sizes, validated edge cases, and resolved browser compatibility issues

Intelligent Learning Assistant | Final Year Project

Technologies: AI/ML, Python, Natural Language Processing

- Developed AI-powered learning assistant system to enhance educational experience through intelligent tutoring capabilities
- Conducted comprehensive testing including functionality validation, response accuracy verification, edge case handling, and user acceptance testing

PROFESSIONAL DEVELOPMENT & COMMUNITY

- **Google Developer Student Clubs (GDSC)** - Active member participating in technical workshops and collaborative learning sessions
- **AWS Cloud Club** - Member engaging with cloud computing technologies and best practices
- **Women in Tech Kenya** - Active participant in tech community events, networking, and knowledge sharing
- **The Odin Project Community** - Member of collaborative learning platform focused on full-stack web development
- **ReadyTensor Community** - Active contributor in AI/ML development and testing community

KEY COMPETENCIES

- Strong analytical and systematic problem-solving abilities with keen attention to detail
- Practical experience in technical troubleshooting, user support, and documentation
- Disciplined, cooperative, and adaptive team player with government work experience
- Self-motivated continuous learner actively engaged in multiple tech communities
- Effective communication skills demonstrated through user training and technical support roles