

# LUCAS E . MANYOTA I

# Professional Portfolio



2025

# Professional Summary



A highly motivated and detail-oriented professional with a Bachelor of Science in Computer Science and a Bachelor of Education in Science, complemented by strong technical skills in Programming, Cybersecurity, Networking and Educational expertise. Proven ability to integrate technology and teaching methodologies to enhance learning experiences and drive academic success. Eager to apply my skills in a challenging environment and committed to continuous professional development in the fields of IT and education.

# **Education summary**

**Bachelor of Science in Computer  
Science (BScCS)**

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**Bachelor of Education in  
Science(BEDS)**



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# Technical Skills & Expertise

## Computer Network Engineering

### 1. Network Design & Implementation

- Planning, designing, and setting up LAN, WAN, VLANs, and WLAN networks.
- Configuring routers, switches, firewalls, and other network devices.
- Implementing scalable and secure network architectures for businesses.

### 2. Network Security & Risk Management

- Securing networks with firewalls, IDS/IPS, VPNs, and encryption.
- Conducting risk assessments and vulnerability testing to identify and fix security threats.
- Implementing Zero Trust Architecture and best cybersecurity practices to protect data and systems.

### 3. Troubleshooting & Network Performance Optimization

- Diagnosing and resolving network issues quickly to minimize downtime.
- Monitoring network traffic and performance.
- Optimizing bandwidth, latency, and overall network efficiency and reliability.

### 4. Cloud & Virtualization Technologies

- Working with cloud networking in AWS, Azure, or Google Cloud.
- Implementing virtualization technologies like VMware and Hyper-V for cost-effective networking solutions.

# Cybersecurity Engineering

## 1. Network Security & Architecture

- Designing and implementing secure network infrastructures using firewalls, VPNs, IDS/IPS (Intrusion Detection/Prevention Systems), and segmentation.
- Configuring secure communication protocols (IPSec, SSL/TLS) to protect data in transit.
- Implementing Zero Trust Architecture to ensure continuous verification of network users and devices.

## 2. Threat Detection & Incident Response

- Utilizing SIEM (Security Information and Event Management) tools to monitor and analyze security events.
- Conducting real-time threat analysis and responding to security incidents.
- Developing and testing incident response plans to reduce the impact of security breaches and ensure quick recovery.

## 3. Vulnerability Management & Penetration Testing

- Conducting vulnerability assessments and penetration tests (ethical hacking) to identify weaknesses in systems.
- Collaborating with teams to patch vulnerabilities, apply security updates, and improve overall system resilience.

## 4. Security Automation & DevSecOps

- Integrating security into the DevOps lifecycle to automate security tasks, such as code scanning, continuous testing, and infrastructure-as-code security.
- Implementing Security Automation tools for more efficient security management.
- Ensuring that secure coding practices are followed by developers to prevent vulnerabilities from being introduced into production.

# Computer Repair Technician

## 1. Hardware Diagnosis & Repair.

- Troubleshooting and diagnosing issues with computer components.
- Replacing faulty parts and upgrading components.

## 2. Software Installation & Troubleshooting.

- Installing, configuring, and troubleshooting operating systems (Windows, macOS, Linux) and essential software applications.
- Diagnosing software conflicts, fixing system errors, and performing system restores.
- Updating and upgrading software to improve system performance and security.

## 3. Customer Service & Technical Support.

- Communicating with clients to understand the issue and explain repair procedures in simple terms.
- Providing remote or on-site technical support for troubleshooting, installation, and upgrades.

## 4. Data Recovery, Backup Solutions & Preventive Maintenance

- Recovering lost or corrupted data from damaged or malfunctioning hard drives, SSDs, and other storage devices.
- Implementing and advising customers on backup solutions to prevent data loss in the future (e.g., cloud backups, external drives).
- Using data recovery tools to retrieve files from failing storage devices.
- Offering preventative maintenance advice to clients to avoid future issues, such as regular software updates and hardware checks.

# IT Trainer or IT Instructor

## 1. Conducting Hands-On Training Sessions

- Leading interactive classes: Deliver live training sessions, workshops, or webinars where students can practice skills in real time.
- Demonstrating technical tasks: Provide step-by-step demonstrations of key processes to give students hands-on experience.
- Facilitating group activities: Use group exercises or case studies to foster collaboration and reinforce learning through practical, real-world scenarios.

## 2. Providing Technical Support & Troubleshooting Guidance

- Assisting with issues: Provide troubleshooting help during training sessions, guiding students through technical problems related to networking, repairs, or software.
- Answering questions: Be available to answer student questions, clarify concepts, and ensure understanding, whether in person, via email, or during office hours.
- Offering career advice: In some cases, provide career-oriented guidance, including how to pursue certifications or develop specific technical skills related to networking, IT support, and Cybersecurity.

## 3. Staying Current with Industry Trends & Technology

- Continuous learning: Stay updated with the latest developments in technology, including new software tools, networking technologies, and cybersecurity threats.
- Integrating new tools: Incorporate emerging technologies or new industry best practices into training sessions, ensuring that students are learning relevant and up-to-date information.
- Attending conferences/webinars: Participate in tech conferences, webinars, or workshops to keep skills sharp and bring fresh perspectives back to the classroom.

# Soft Skills

## 1. Communication Skills

- Clarity in teaching.
- Active listening.
- Presentation skills.

## 2. Problem-Solving and Critical Thinking

- Troubleshooting skills.
- Analytical thinking.

## 3. Leadership & Mentoring

- Guiding students.
- Mentoring.

## 4. Collaboration & Teamwork

- Collaborative spirit.
- Team-oriented mindset.

# Opportunities

- Long Term Investment
- Product Insurance Costs are Raising
- High Level of Third Party Turnover Due
- To Price Competition
- Public Policies and Procedures

# Threats

- High Level of Employee Turn Over
- New Competitors From Other Country
- Impact of Climate Change
- Covid-19 Pandemics Situation

**Website:**

[www.computerdoctortz.co.tz](http://www.computerdoctortz.co.tz)

