

# ISHIMWE MUSONERA ADELINE

📍: Rwanda-Kigali

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Results-driven Cybersecurity Analyst with strong academic training and hands-on experience in security monitoring, risk assessment, and analysis to identify threats and improve system resilience. Skilled in Python, Kali Linux, and security frameworks, including NIST, with practical exposure to threat monitoring, vulnerability identification, and network performance analysis. Demonstrated abilities through research, academic projects, and industry experience, including a cybersecurity internship at MTN Rwandacell, project aiming to educate preteens about cyber security using comic books, and serving as a red team member in an academic vulnerability assessment and penetration testing project. Adept at working in collaborative environments, solving analytical problems, and communicating technical concepts to diverse stakeholders. Passionate about bringing a unique blend of networking background, security knowledge, and data science expertise to support organizational security, risk management, and strategic decision-making.

## EDUCATION & PROFESSIONAL DEVELOPMENTS

### Master of Science in Information Technology

Aug 2022 - May 2024

- Carnegie Mellon University Africa

### Bachelor of Science in Electronics and Communication Engineering

Jul 2014 - Jul 2018

- Gujarat Technological University India

## PROJECTS

### Cybersecurity Education for African Preteens through Comics

Role: Research Assistant

Jan 2024 – Present

- Developed cybersecurity comic and notes for preteens using visual storytelling and educational content design to teach cyber threats such as cyberbullying, cyberstalking, phishing, viruses and malware.
- Conducted a controlled study comparing comic-based and note-based learning using assessments and data analysis to evaluate student understanding.
- Drafted informed consent forms and ensured research ethics compliance, achieved higher engagement and test performance among students using comics.

### Red Team Network Penetration Testing Lab for VAPT Course

Role: Red Team Member

Nov 2024 – Dec 2024

- Conducted network reconnaissance and vulnerability assessment using scanning, enumeration, and exploitation techniques to identify weaknesses across target systems.
- Performed Red Team attack simulations against a segmented lab network, overcoming limited visibility and access restrictions to progress through multiple hosts.
- Successfully compromised target systems and captured hidden flags, documenting vulnerabilities, attack paths, and security recommendations in a comprehensive technical report.

## PROFESSIONAL EXPERIENCE

### Academic Reviewer

May 2024 – Feb 2026

#### SNHU Global Education Movement

- Reviewed and evaluated up to 18 student projects daily, applying quality assurance and analytical review techniques to ensure accuracy, integrity, and compliance with academic standards.
- Maintained strict confidentiality when handling student data and assessments, demonstrating strong data protection practices and professional ethics in a high-volume review environment.
- Identified inconsistencies, errors, and performance gaps through detailed technical reviews, providing actionable feedback that improved report quality, critical thinking, and problem-solving outcomes.

### Graduate Teaching Assistant (Information Security)

Aug 2023 – Dec 2023

#### Carnegie Mellon University Africa

- Assisted instruction in Information Security, covering threat modeling, risk management, access control, and system security using structured learning techniques to simplify complex cybersecurity concepts.
- Mentored students on cybersecurity assignments and real-world security scenarios, applying analytical problem-solving and secure design principles to improve understanding and practical application.
- Evaluated coursework and provided targeted feedback on security concepts, addressing knowledge gaps and improving the accuracy, quality, and security awareness of student submissions.

### Information Security Intern

Jun 2023 – Aug 2023

## MTN Rwandacell

- Gained exposure to NIST cybersecurity framework and enterprise security operations processes for threat detection and response.
- Learned security tools and concepts including ArcSight, Nessus, Zero Trust, Privileged Access Management, and Micro Trend Anti-Malware through guided demonstrations.
- Observed incident detection, logging, and reporting workflows to understand how threats are identified, analyzed, and escalated in enterprise environments.

## Network Operator

Apr 2022 – Aug 2022

### IHS Rwanda

- Monitored power infrastructure systems using INALA, ensuring continuous visibility of alerts, system status, and operational stability.
- Recorded and reported incidents in real time with high accuracy, strengthening alert response discipline, attention to detail, and escalation procedures.
- Analyzed power performance data to identify anomalies and inefficiencies, supporting proactive issue resolution and improving system reliability.

## Network Operator

Dec 2019 – Mar 2022

### Innovis Telecom (Airtel Rwanda)

- Monitored Circuit Switched Core and Packet Switched Core network systems (SS7, SIGTRAN, GSM/GPRS), ensuring stable operations and continuous service availability.
- Performed routine system health checks and monitored performance indicators to detect anomalies, supporting early issue identification and operational security awareness.
- Analyzed network performance data and collaborated with engineering teams to troubleshoot faults, improving reliability, response time, and system stability.

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## SKILLS AND CERTIFICATIONS

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**Data Protection Officer (DPO) Certification** | African Centre for Data Science and Analytics Ltd | Jan 2026 – Jun 2026

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## INTERESTS & ACHIEVEMENTS

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- Dedicated to supporting organizations with data protection compliance and cybersecurity, including providing security consultations to improve organizational security posture.
- Advised and coordinated a large-scale benefit concert attended by over 700 participants in honor of Rwandan music legend Mutamuriza Annociata (Kamaliza), supporting fundraising initiatives that generated \$1,200 in donations and revenue.