

## Tanaka Shumba

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| <https://tanakashumba.github.io/> |

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### Professional Summary

Detail oriented Cybersecurity professional with a B.S. in Cybersecurity and pursuing an M.S. in Computer Science – Cybersecurity. Experienced in threat detection, incident response, penetration testing, and network monitoring. Proficient in Python, Java, and security tools like Wireshark, Zeek, Snort, and Nmap. Skilled at analyzing logs, identifying vulnerabilities, and implementing mitigation strategies. Seeking to contribute to a SOC or cybersecurity team to strengthen organizational security posture.

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### Education

Troy University — **M.S. Computer Science – Cybersecurity** | Expected May 2026  
Troy University — **B.S. Cybersecurity** | Dec 2023

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### Experience

#### Student Worker – Computer Science Dept.

Troy University | Sept 2025 – Present

- Manage and maintain lab systems and networks, ensuring security and reliability.
  - Tutor students in cybersecurity fundamentals, programming, and threat analysis.
  - Monitor network activity and logs to detect anomalies or potential security incidents.
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### Projects

#### VoIP Threat Analyzer (Python / Scapy)

- Captured and decoded SIP/RTP traffic to detect suspicious VoIP activity.
- Implemented alerting logic for potential security breaches.

#### Network Scanner & Vulnerability Detection Tool (Python, Nmap)

- Automated scans to identify live hosts, open ports, and potential vulnerabilities.
- Generated actionable reports for security assessment.

#### Intrusion Detection Simulation (Python / Snort / Zeek)

- Simulated network attacks and flagged suspicious activity using IDS rules.
  - Validated detection workflows with packet capture and log analysis.
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### Technical Skills

**Programming / Scripting:** Python, Java, C++

**Cybersecurity Tools:** Wireshark, Zeek, Snort, Nmap, pfSense, IPTables

**Cybersecurity Concepts:** Penetration Testing, IDS/IPS, Incident Response, Threat Detection, Vulnerability Assessment

**Operating Systems:** Linux (Ubuntu/Kali), Windows, macOS

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### Soft Skills

Problem Solving | Critical Thinking | Communication | Documentation | Collaboration