

CHARITHA JAYASINGHE

CYBER SECURITY INTERN

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PROFESSIONAL SUMMARY

Cybersecurity focused Computer Science student with strong proficiency in Python and JavaScript, seeking an internship to gain hands-on cybersecurity experience. Passionate about network security, intrusion detection, and threat analysis with a demonstrated track record in building security tools and honeypots. Eager learner with strong problem-solving abilities and a commitment to advancing cybersecurity practices.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Bash
Security Tools: Wireshark, Nmap, Metasploit
Operating Systems: Kali Linux, Windows
Networking: TCP/IP, DNS, Firewalls
Cloud Platforms: Microsoft Azure
Version Control: Git, GitHub
Web Technologies: React, Node.js, Express.js, MongoDB

EDUCATION

Bachelor of Science (Honors) in Computer Science and Technology	2022 – Present
<i>Uva Wellassa University of Sri Lanka</i>	<i>CGPA: 3.36 / 4.0</i>

RESEARCH

GANs based data augmentation for multiclass intrusion detection system in AG-IOT	Nov 2025 – Present
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- Developing a lightweight Generative Adversarial Network framework to generate high-quality, synthetic attack data.
- Implementing data augmentation pipeline to mitigate class imbalance in datasets and measure the IDS performances.

PROJECTS

Building a Honeypot

Technologies: Python, Docker, Ubuntu Server, Networking, Logging/Monitoring

- Built a Python file-integrity monitoring script using cryptographic hashing to detect unauthorized changes.
- Implemented baseline snapshots and periodic checks to identify modified, added, or deleted files.
- Added logging and alerts for suspicious file alterations, tested on Linux for accuracy.

File Integrity Monitor

Technologies: Python, Hashlib, SQLite, Linux, Logging

- Developed a Python file-integrity monitoring tool using SHA-256 hashing to detect unauthorized changes.
- Implemented baseline creation, automated change detection, and continuous file monitoring.
- Added logging and alerting for suspicious modifications, tested on Linux for validation.

Active Directory Automation

Technologies: PowerShell, Active Directory (AD DS), Windows Server, Automation Scripts

- Automated user and group management in Active Directory using PowerShell scripts.
- Implemented bulk user creation, password resets, and OU organization workflows.
- Streamlined and tested AD administrative tasks on Windows Server for efficiency.

Malware Analysis Lab

Technologies: VirtualBox, Windows VM, Linux VM, Wireshark, Process Monitor, Cuckoo Sandbox, RE Tools

- Built an isolated malware analysis lab with Windows and Linux VMs using VirtualBox.
 - Analyzed malware behavior and network activity with Wireshark, Process Monitor, and Cuckoo Sandbox.
 - Documented IoCs and attack patterns while practicing safe malware handling.
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SOAR EDR Project

Technologies: SOAR Platform, Python/PowerShell, SIEM Integration, EDR Tools

- Designed and deployed EDR-to-SOAR integration to automate incident detection and response.
- Developed scripts and workflows for automated triage, alert enrichment, and playbook execution.
- Streamlined threat investigation by correlating endpoint telemetry, SIEM alerts, and automated remediation.

CERTIFICATIONS

Junior Cybersecurity Analyst — Cisco Networking Academy — In Progress

Cybersecurity Essentials — Cisco Networking Academy — 2025

TryHackMe Cyber Security Pathway — In Progress

Python Essentials 1 — Cisco Networking Academy — 2025

Python Essentials 2 — Cisco Networking Academy — 2025

JavaScript Essentials 1 — Cisco Networking Academy — 2025

SOFT SKILLS

Communication, Problem-Solving, Critical Thinking, Teamwork, Adaptability, Time Management

ADDITIONAL INFORMATION

Languages: English (Advanced), Sinhala (Native)

Professional Interests: Network Security, Penetration Testing, Security Operations Center

REFERENCES

Ms. Chamalie Ellepola

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