SAMYUKTA KURIKALA

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Education

MS in Cybersecurity, Northeastern University — Sep. 2024 – Dec. 2026 [Exp.]
Relevant Coursework: Information System Forensics, Network Security — GPA: 3.75

BTech in Computer Science, SRM Institute of Science and Technology — Sep. 2020 – Jun. 2024
Relevant Coursework: Computer Networks, Network Security, Operating Systems — GPA: 9.21

Projects

Information System Forensics - Case Studies | *Volatility, Wireshark, Autopsy* — **2025**

- Independently conducted 4 detailed case studies focusing on memory analysis, malware forensics, browser forensics, and cloud artifact analysis.
- Applied tools like Volatility, Wireshark, and Autopsy to identify indicators of compromise and recommend incident response measures.
- Maintained detailed chain-of-custody documentation and demonstrated practical proficiency in analyzing digital evidence and presenting findings in structured forensic reports.

Secure Instant Messaging Application | *Python, ECDH, AES-GCM* — **2025**

- Built a command-line chat app with encrypted messaging, session key rotation, and secure login, supporting real-time communication.
- Applied ECDH key exchange and AES-GCM encryption, enabling zero-knowledge password proofs and tamper-proof logs.

Experience

Cybersecurity Project Intern — Aug. 2023 – Nov. 2023
DRDO — Dehradun, India

- Developed and deployed an end-to-end encrypted video transmission system over Wi-Fi, using AES encryption and PyCrypto, to safeguard sensitive communications.
- Implemented frame shuffling and real-time anti-tampering checks, achieving zero successful MITM attack attempts in laboratory testing.

Network Security Intern — Jun. 2023 – Jul. 2023
MSN Laboratories — Hyderabad, India

- Monitored and analyzed network traffic using Wireshark/tcpdump, reducing false positives in alert triage by 20%.
- Configured VLAN segmentation and firewall rules, decreasing unauthorized access attempts by 35%.
- Reviewed firewall logs and escalated 15+ critical incidents, improving detection-to-response time by 30%.

Technical Skills

Tools & Platforms: Wireshark, Burp Suite, Volatility, Autopsy, Splunk, Security Onion

Languages/Scripts: Python, Bash, PowerShell, SQL

Frameworks/Standards: MITRE ATT&CK, NIST CSF, ISO 27001, OWASP Top 10

Core Skills: Malware Forensics, Memory Analysis, Log Analysis, IR Playbooks, Threat Hunting, Vulnerability Management

Certifications

CompTIA Security+	In Progress
Google Cybersecurity Professional Certificate	In Progress
AWS Cloud Security	Completed

Community

- Contributor to WiCyS VDP program
- Head of Finance and FOSS contributor @ null NEU
- Member of WiCyS & CTF Participant
- Attended Boston Security Meetup, Boston Hackers and DEFCON (Boston Chapter)
- SimSpace Cyber Range Challenge – Ranked 6th place, demonstrated threat detection, log analysis, and blue team coordination in a simulated SOC environment