SAMYUKTA KURIKALA

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TECHNICAL SKILLS

Security Tools: Wireshark, Nmap, Autopsy, Firewall Tools, SIEM Platforms
Programming: Python, C/C++, SQL, Bash, PowerShell
Infrastructure: Docker, Git, Linux, Windows, macOS
Network Security: Firewalls, VLANs, Router Config, Packet Analysis, Network Segmentation, Security Architecture
Frameworks/Standards: NIST CSF, ISO 27001, Security Protocols

EDUCATION

Master of Science in Cybersecurity Jan 2024 – Present
Northeastern University, Boston, MA **GPA: 4.00/4.00**
Khoury College of Computer Sciences
Relevant Coursework: Network Security, Cryptography, Digital Forensics

Bachelor of Technology in Computer Science and Engineering Sep 2020 – Jun 2024
SRM Institute of Science and Technology, Chennai, India **GPA: 9.21/10.0**
College of Engineering and Technology
Relevant Coursework: Advanced Programming Practices, Computer Networking, Network Security

PROFESSIONAL EXPERIENCE

Project Intern Aug 2023 – Nov 2023
Defence Research and Development Organisation (DRDO), Dehradun, India

- Architected and implemented a secure video transmission system utilizing AES encryption and symmetric key cryptography.
- Developed a real-time streaming platform with end-to-end encryption over Wi-Fi.
- Integrated PyCrypto for robust encryption and OpenCV for efficient video processing.
- Implemented frame shuffling and anti-tampering mechanisms to thwart man-in-the-middle attacks.

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

- Managed and configured network security infrastructure including routers, switches, and firewalls.
- Implemented VLAN segmentation and performed regular security monitoring with Wireshark/tcpdump.
- Analyzed firewall logs to identify and report potential threats; improved incident response protocols.

KEY PROJECTS

Phishing Detection System (Phishing Hook) 2023
github.com/SirChronicle/Phishing-Hook

- Engineered a deep learning-based phishing detection system using Python and modern ML frameworks.
- Achieved 94% accuracy in real-time phishing detection through URL analysis and content fingerprinting.

CERTIFICATIONS & ACHIEVEMENTS

- **Fortinet Network Security Expert (NSE)**
- **Palo Alto Networks Certifications** – Cloud Security, Network Security, SOC Analyst
- **Google Cybersecurity Professional Certificate** – Coursera
- Active in cybersecurity CTF competitions and security research

ADDITIONAL INFORMATION

- Head of Finance and FOSS contributor for null NEU
- Member of WiCyS
- Frequent participant in security conferences and workshops