

MEHUL SEN

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CompTIA Security+ and Network+ certified M.S. student in cybersecurity (May '24) specializing in network and system security and machine learning applications in cybersecurity.

PROFESSIONAL EXPERIENCE

Wegmans Food Markets, Rochester, NY

January 2022 – August 2022

Network Support Technician Co-op

- Engineered, implemented, and maintained the network infrastructure for all the retail stores, distribution warehouse facilities, and corporate offices nationwide.
- Optimized and configured Cisco, Arista, POLRE Phybridge, Raritan switches, access points, wireless bridges, Palo Alto firewalls, Digi modems, and VoIP Cisco phones through the Cisco call manager.
- Designed, developed, and integrated complex network monitoring tools that enhanced configuration management and productivity.

Value Point Tech Solutions, Bengaluru, India

August 2019 – September 2019

Security Operations Center Intern

- Collaborated with the team to design and deploy a brute-force threat-hunting playbook on their SOAR platform.
- Programmed custom scripts and modules to gather and parse data from logging services for improved monitoring and management.
- Piloted OSINT investigations and performed vulnerability assessments, providing strategies and recommendations to strengthen their virtual presence.

PROJECTS

Deepfake Detection using Machine Learning

December 2023

Coordinated and conducted a comprehensive literature review and implemented three machine learning models (CNN, CNN+RNN, GAN) and a diverse dataset to perform facial feature extraction and detect deepfakes with an accuracy of 94%.

Usability Study of Privacy Indicators in Android

December 2023

Programmed mockup Android applications and conducted a survey and user study to evaluate the usability and effectiveness of privacy indicators in Android and proposed solutions that improved upon the existing systems.

Hacking for Diplomacy 2023

January 2023 – May 2023

Interviewed over 50 unique touch points and collaborated with my team and the Department of State for the USA to create and present a triangulation solution to improve embassy security by rapidly detecting imminent danger and enhancing emergency response.

Privacy-preserving Paired Location Sharing Mechanism

May 2023

Engineered a privacy-preserving paired location-sharing crowdsensing mechanism called PairLoSh that ensures user privacy while providing location data and minimizing trust boundaries between parties involved.

Vulnerability Assessment of Trillium Health

August 2022 – December 2022

Performed metadata audit, OSINT analysis, threat modeling, social engineering exercises, and policy reviews for Trillium Health, a community health center in Rochester, helping them improve their cybersecurity capabilities.

EDUCATION

Rochester Institute of Technology, Rochester, NY

Master of Science in Cybersecurity

January 2023 – Present

- GPA 3.9/4

Bachelor of Science in Cybersecurity

August 2018 – December 2022

- Summa cum laude

SKILLS & OTHER

Skills: ML for Cybersecurity, SIEM and SOAR Management, Threat Intelligence and Risk Analysis, Scripting and Automation, OSINT and Metadata Analysis, Penetration Testing, Reverse Engineering, Threat Modeling, Vulnerability Assessments, PCI/SOX, HIPAA and GDPR Compliance, Cryptography Fundamentals, IDS/IPS, NSM and Proxy Server Configuration, Network Protocols, and Incident Response Frameworks

Certification: CompTIA Security+ and Network+ Certification (January 2024, July 2022), Machine Learning Specialization by Coursera (January 2023)