SAMYAK JAIN

Masters in Cybersecurity + Certified Ethical Hacker

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CYBER SECURITY PROFESSIONAL

Network Security || Threat Intelligence || Security Compliance and Governance || Security Operations || Security Awareness || Risk Management || Incident Response || Crisis Management || Security Architecture || Machine Learning

PROFILE OVERVIEW

Results-driven IT professional with a **Master's in Cybersecurity**. *Strong foundation in cybersecurity* **principles** *and* **practices.** *Ability to analyze complex security issues and develop effective solutions while implementing security measures to protect* **networks** *and* **data**.

- ✓ Experienced in conducting security assessments, identifying vulnerabilities, and recommending remediation strategies.
- ✓ Deep understanding of security architecture principles and designing, implementing & maintaining secure IT infrastructure.
- ✓ Demonstrated Knowledge in incident response procedures, including detection, analysis, containment, and recovery.
- ✓ Commitment to staying abreast of emerging cybersecurity threats, technologies, and industry trends with a proactive approach to driving continuous improvement and innovation.
- ✓ Able to quickly understand and integrate new information, adjusting to evolving situations with flexibility and ease.

TECHNICAL PURVIEW

Programming Languages:	C, C++, Python, HTML, CSS, SQL.
Protocols:	TCP/IP, FTP, SSH, UDP, DNS, DHCP, HTTP, ARP, ICMP, SMB, SSL.
Operating Systems:	Linux, Windows, Raspbian.
Network Security Tools:	Wireshark, Nmap, Nikto, Snort, FortiGate, FortiGuard, Ruckus WLP, Splunk, ArcSight ESM, Apex One AntiMalware Threat Analyzer.
Web Application Security:	Nessus, Beef, Sqlmap, Burp Suite, OWASP ZAP, Metasploit.
Cloud Security Platforms:	AWS and Google Cloud Platform
Machine Learning Skills:	Natural Language Processing (NLP), Tokenization, Vectorization, Data Cleansing, Classification Algorithms.

ACADEMICS & CREDENTIALS

Masters in Cybersecurity ► University of Maryland | 3.52 GPA -- (2024) Pursuing

B.Tech. in CSE (Cybersecurity) ► SRM University | 8.68 CGPA ---2022

Courses: **G Suite Security, Google Cloud Computing Foundation, Cyber Threats and Attack Vectors, Detection and Mitigating Cyber Threats and Attacks**

ACADEMIC PROJECTS:

Text Monitoring with NLP for Covid-Related Data
- Scope: Developed NLP algorithm using Python and NLTK to extract keywords from 100,000 COVID-related statements.
- Responsibilities: Created algorithm to extract keywords for monitoring.
- Achievements: Achieved 5% improvement in text cleansing mechanism and 90% accuracy when validated with ML models & Presented work to esteemed DRDO scientists at a university conference with 70 participants.

Website Migration
- Responsibilities: Migrated website to AWS Cloud Services, designing optimal architecture.
- Achievements: Implemented AWS Security features, enhancing security and accelerating performance by 50%.

Website Development
- Responsibilities: Developed responsive portfolio website showcasing front-end design and back-end functionality proficiency.
- Achievements: Demonstrated proficiency in front-end design and back-end functionality with portfolio website. Link

WORK EXPERIENCE

Security Operations Center Monitor ► University of Maryland Police Department ---Jun. 2023 - Present
- Support on-field police officers during incidents & investigations by providing real-time visual updates and crucial situational awareness.
- Serve as an observer, identifying, and notifying first responders of fire incidents and medical emergencies through camera monitoring and alerting systems like Kelton and GTRI.
- Monitor a network of approximately 500 cameras across College Park, contributing to enhanced public safety.
- Communicate with police officers during incidents involving vehicles by utilizing ELSAG license plate readers and Motorola radio systems.

Network Security Intern ► TATA Power Southern Odisha Distribution Limited -- Sep 2023 – Dec 2023
- Conducted research on network protocols and security tools, including firewalls, SIEM, SOAR, and more, during a 12-week internship.
- Gained proficiency in advanced network security technologies such as FortiGate Firewall, Trend Micro Deep Security, and ArcSight SOC, resulting in a 10% increase in overall network security effectiveness.
- Participated in 20+ demonstrations and sessions focused on managing security policies and reducing security policy violations.

Web Application Security Intern ► TATA Power Delhi Distribution Limited ---Jan 2021 - Apr 2021
- Conducted 42 vulnerability assessments and penetration tests on simulated web applications.
- Utilized Kali Linux tools like OWASP ZAP, Nessus, Metasploit, and Burp Suite, producing detailed reports during a 13-week training period.
- Implemented risk analyses and mitigation strategies, improving web application security by 23%.
- Presented insights on cybersecurity developments through 11 presentations covering topics like cyber threats and malware analysis.