

SAMYAK JAIN

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Education

University of Maryland

Master of Engineering in Cybersecurity

College Park, MD

CGPA: 3.52, Expected May 2024

SRM Institute of Science and Technology

Bachelor of Technology in Computer Science Engineering

Chennai, TN, India

CGPA: 8.68, Jul 2018-May 2022

Professional Experience

Network Security Intern

Sep 2023 – Dec 2023

TATA Power Southern Odisha Distribution Limited

- Conducted in-depth research on network protocols and security tools, such as firewalls, SIEM, SOAR, intrusion detection/prevention systems, cloud-based anti-malware, VPNs, endpoint protection, and WLPs during a 12-week internship.
- Acquired proficiency in cutting-edge network security technologies, including FortiGate Firewall, Forti Analyser, Ruckus WLP, Trend Micro Deep Security, ArcSight SOC, and Forcepoint Security Manager, resulting in streamlined operations and a 10% increase in overall network security effectiveness, under the guidance of seasoned professionals.
- Participated in over 20 demonstrations and interactive sessions focused on managing security policies, ensuring information assurance, and addressing regulatory compliance, contributing to improvement in compliance adherence and a 25% reduction in security policy violations.

Web Application Security Intern

Jan 2021 - Apr 2021

TATA Power Delhi Distribution Limited

- Performed an average of 42 vulnerability assessments and penetration tests on simulated web applications.
- Utilized tools present in Kali Linux such as OWASP ZAP, Nessus, Metasploit, and Burp Suite, generating comprehensive reports on findings throughout a 13-week training period.
- Mastered cybersecurity fundamentals and acquired valuable experience while assisting a professional team with over 10 years of expertise.
- Applied risk analyses and mitigation practices, resulting in a 23% improvement in the security of web applications compared to their previous state.
- Demonstrated insights into the latest developments in cybersecurity through 11 presentations covering topics such as cyber threats and malware analysis.

Projects

Text Monitoring with NLP for Covid-Related Data

- Developed a Natural Language Processing algorithm, utilizing Python libraries and NLTK to extract keywords for monitoring from 100,000 COVID-related statements.
- Illustrated a 5% boost in text cleansing mechanism along with an impressive 90% accuracy when validated with training models and machine learning algorithms.
- Gained an opportunity to present my work to a panel of esteemed DRDO scientists at a conference among 70 participants all over the university.

Website Migration

- Migrated a simulated website running on a virtual machine to AWS Cloud Services while designing an optimal architecture in the process.
- Applied AWS Security features such as AWS IAM, AWS RDS, AWS Network Firewall, AWS Patch Manager, and AWS Security Manager which made the website secure accelerated performance by 50 %.

Website Development - [Website](#)

- Crafted a responsive portfolio website to demonstrate early web development skills, showcasing proficiency in HTML and CSS, which helped me gain hands-on experience in front-end design and back-end functionality.

Technical Skills

- 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 Anti-Malware Threat Analyzer.
- Web Application Security Tools:** 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.
- Certifications:** Certified Ethical Hacker (CEH), G Suite Security, Google Cloud Computing Foundations, Detection and Mitigating Cyber Threats and Attacks.