

SAMYAK JAIN

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Education

University of Maryland

Master of Engineering in Cybersecurity

College Park, MD

CGPA: 3.28, Expected May 2024

SRM Institute of Science and Technology

Chennai, TN, India

Bachelor of Technology in Computer Science Engineering with specialization in Cybersecurity

CGPA: 8.68, Jul 2018-May 2022

Professional Experience

Web Application Security Intern

Jan 2021 - Apr 2021

TATA Power Delhi Distribution Limited

- Completed Vulnerability Assessment and Penetration Testing training, covering topics such as information security, network protocols, OWASP Top 10 (2017) analysis, and hands-on experience through vulnerability labs.
- Mastered cybersecurity fundamentals and gained invaluable experience assisting a professional team environment through the comprehensive 13-week training program.
- Managed evaluations on diverse operations of web-based attacks with professionals with 10+ years of experience in information security.
- Conducted 42 vulnerability assessments and prepared comprehensive reports and analyses on findings, including identification and mitigation of vulnerabilities.
- Implemented firewalls, IDS/IPS, and SIEM tools such as QRadar and Splunk in a simulated environment to protect the company's web infrastructure, reducing security incidents by 40 %.
- Executed mitigation techniques to address 42 identified vulnerabilities and remediate offensive scenarios.
- Demonstrated insights on the latest developments in cybersecurity by delivering 11 presentations covering topics such as cyber threats, attack vectors, and malware analysis.

Projects

Text Monitoring with NLP for Covid Related Data

Jan 2022 - May 2022

- Designed and implemented a Natural Language Processing algorithm for extracting keywords from 100,000 Covid-19 statements.
- Incorporated Python libraries and NLTK to create the text-cleaning mechanisms that resulted in 10 % more efficiency compared to the traditional methods.
- The project turned out to be 90% accurate when tested with training models and machine learning algorithms.
- Delivered a compelling presentation about the project to a jury panel of 3 esteemed scientists from DRDO, at a highly anticipated university conference, attended by approximately 70 participants.

Website Migration

Nov 2022 - Dec 2022

- Migrated a simulated website running on a virtual machine and hosted on a physical web server to AWS Cloud Services.
- Accelerated the performance of the website by 50 % by designing an optimal architecture for the website.
- Applied AWS Security features such as AWS IAM, AWS RDS, AWS Network Firewall, AWS Patch Manager, and AWS Security Manager to make the website 90% efficient and secure.

Certifications

Certified Ethical Hacker (CEHv11) – EC Council

Sep 2021 - Sep 2024

- Certified in ethical hacking and basic principles of VAPT such as network scanning, enumeration, malware analysis, SQL injection, social engineering, cloud security, analysis of IDS and honeypots, vulnerability assessment, and cryptography.

Technical Skills

- Programming Languages:** C, C++, Python, HTML, and MySQL.
- Cybersecurity Skills:** Linux, Vulnerability Assessment, Penetration Testing, Web Application Security, Cloud Security, Network Security, Steganography, Cryptography, Google Suite Security, SOC Analysis.
- Tools:** Microsoft Office 365, Wireshark, NMAP, Nessus, Nikto, Burp Suite, ZAP, Metasploit, Social Phish, Slowloris, Beef, VeraCrypt, DeepSound, AWS Security, Azure Security, QRadar, and Splunk.
- Other Skills:** Cloud Computing, Machine Learning, Natural Language Processing.