

SUSHMITA PAUL

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EDUCATION

Northeastern University, Boston, MA Fall 2019 - Present
Khoury College of Computer Sciences GPA: 3.83

Candidate for a Master of Science in Cybersecurity

Related Courses: Foundation of Information Assurance, Computer Systems Security, Network Security Practices, Information System Forensics, Software Vulnerabilities and Security

Goa University, Goa, India July 2014
Bachelor of Engineering in Electrical and Electronics

TECHNICAL KNOWLEDGE

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|-----------------------------|--|
| Languages: | Java, JSP, Spring Framework |
| Web Technologies: | HTML, CSS, JavaScript, AngularJs, Bootstrap |
| Tools: | Registry Viewer, Autopsy, FTK Imager, IBM RAD, Visual Studio, Splunk, SOAP, Active Directory, Putty, Docker, WinSCP, Metasploit, Nmap, Dirb, Nikto |
| Pentesting Tool: | Wireshark, Maltego, Hydra, Burp Suite, Kali Linux, John The Ripper, Spiderfoot, SQLMap |
| Scripting Languages: | Bash Scripting, Python |
| Operating System: | Linux, Windows |
| Cloud Platform: | Amazon Web Services (AWS) |

ACADEMIC PROJECTS

- Self-Replicating Virus (Northeastern University)** Fall 2020
- Designed and implemented virus using C that will infect one file at a time in the same directory it is executed. The infected file will keep on infecting other files based on its location, thus self-replicating & infecting legitimate files.
- Gaining Access to OS and Application (CTF) (Northeastern University)** Spring 2020
- Performed reconnaissance on a test application to gain access to the Operating system and application along with maintaining backdoor entry into application.
- Password Cracking Tool (Northeastern University)** Fall 2019
- Developed an offline dictionary-based password cracking tool using Python. Multi-threading was implemented in the tool to improve speed and efficiency.
- Firewall and iptables (Northeastern University)** Fall 2019
- Set up firewall and routed packets using iptables to protect internal network from the Internet.
- Enterprise Network Architecture Research Paper (Northeastern University)** Fall 2019
- Wrote a paper on designing a secure enterprise network architecture that includes zoning, subnetting, network access control rules, and monitoring traffic using SIEM.
- Cryptographic Schemes (Northeastern University)** Fall 2019
- Devised and implemented cryptographic schemes to encrypt and decrypt files using bash script

WORK EXPERIENCE

CyberArk Software Inc., Newton, MA September 2020 - Present
Information Security Services Intern

- Identified, debugged, and resolved technical issues faced by customer in Enterprise Password Vault (EPV) and Central Policy Manager Server (CPM) of CyberArk Privileged Access Security (PAS) Solution that includes Password Management & Storage; Privileged Account management; Discovery & Audit Scanning; and Event Notification Engine.

Global Resilience Institute - Northeastern University, Boston, MA January 2020 – September 2020
Security Engineer

- Implemented security controls for users and administrators considering network architecture hosted on Amazon Web Services (AWS) using Network Access Control Rules (NACL) and Security groups, will reduce outsiders, as well as insiders, attack by 20%.
- Performed penetration testing and hardening of the email server, Linux, and Windows-based operating system.

Northeastern University, Boston, MA January 2020 – April 2020
Teaching Assistant

- Assisted Professor in the course "Cyberspace Technology and Applications" to prepare assignments and its solutions.

Infosys Limited, Pune, India July 2014 – August 2019
Technology Analyst

- Led a team to deploy a project, included development of Restful API using Java with Spring Framework for incentive detail page allowing customers to check respective incentive details, decreasing turn around time by 25%.
- Presented Proof of Concept using AWS, consisted of scheduling a reminder for members to record health vitals using Alexa and saving recorded vitals in Dynamo DB, enabling providers to remotely monitor vitals of members (Patients).