

SUSHMITA PAUL

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EDUCATION

Northeastern University , Boston, MA Khoury College of Computer Sciences Candidate for a Master of Science in Cybersecurity <i>Related Courses: Foundation of Information Assurance, Computer Systems Security, Network Security Practices, Information System Forensics</i>	Fall 2019 - Present GPA: 3.778
Goa University , Goa, India Bachelor of Engineering in Electrical and Electronics	July 2014

TECHNICAL KNOWLEDGE

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

Gaining Access to OS and Application (CTF) (Northeastern University)	Spring 2020
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Set up firewall and routed packets using iptables to protect internal network from the Internet.	
Enterprise Network Architecture Research Paper (Northeastern University)	Fall 2019
<ul style="list-style-type: none">Wrote a research paper on designing an enterprise network architecture, includes network tiers to separate internet-facing system from internal network, network access control rules to route traffic, security devices to detect intrusion, using SIEM for management zone and, assigning IP address subnet to zones.	
Cryptographic Schemes (Northeastern University)	Fall 2019
<ul style="list-style-type: none">Devised and implemented cryptographic schemes to encrypt and decrypt files using bash script	

WORK EXPERIENCE

CyberArk Software Inc., Newton, MA <i>Information Security Services Intern</i>	September 2020 - Present
<ul style="list-style-type: none">Working on the CyberArk product of IT Security and Privileged Identity Management.	
Global Resilience Institute - Northeastern University, Boston, MA <i>Security Engineer</i>	January 2020 – September 2020
<ul style="list-style-type: none">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 <i>Teaching Assistant</i>	January 2020 – April 2020
<ul style="list-style-type: none">Assisted Professor in the course "Cyberspace Technology and Applications" to prepare assignments and its solutions.	
Infosys Limited, Pune, India <i>Technology Analyst</i>	July 2014 – August 2019
<ul style="list-style-type: none">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).	