Anushka Khare

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[GitHub](#) | [LinkedIn](#) | [Portfolio Website](#)

Work Experience

Iron Spear, Calgary - Cyber Security Student   May 2022 – Aug 2022

- Helped clients mitigate high-risk host vulnerabilities using Rapid7's InsightVM scanner results.
- Performed malware analysis to build IOCs (indicators of compromise) to enable detection.
- Presented weekly reports to the client senior management.
- Developed cybersecurity controls, standards, and polices based on NIST V1.1 and ISO 27002, including maturity ratings, data classification, and incident response plans.
- Built HTML templates for phishing campaigns and implemented AWS SES and Route 53 services to create phishing domains and sending profiles.
- Conducted internal and external network vulnerability scanning and reporting with QualysGuard and assisted clients with mitigating the identified threats by developing vulnerability assessment reports.
- Conducted threat and risk assessments for software solutions.
- Integrated an open-source incident response system and security operation control (SOC) using TheHive and Cortex.
- Developed Python scripts to generate alerts within the Incident Response System and trigger alerts in SOC

BlackBerry, Waterloo – Cyber Security Architecture Student   Jan 2022 – April 2022

- Analyzed AWS Security Hub findings and SIEM logs using ArcSight to identify remediation actions.
- Created JIRA project, Scrum board, Confluence page for project updates.
- Communicated with vendors to resolve problems for Elastic Container Registry Integration.
- Conducted Security Risk Assessments and Threat Risk Assessments for BlackBerry Products.

Trans Mountain, Calgary – Cyber Security Analyst, Intern   May 2021 – Jan 2022

- Formalized governance standards in alignment to control sets NIST, ICFR and Z246.21-1
- Collabortated with Security Operations Center Monitoring to monitor risky logins, mass deletions, suspicious activity on SCADA side by using Forescout, and analyzing phishing emails.

Projects

2022 User Authentication System   Ruby, SQLite3

- Developed user authentication tool using Ruby on Rail 6 by creating a database of unique users in SQLite3 and by running migrations to ensure proper access control.
- Configured controllers to create, manage and authenticate users and enabled password reset through email.

2022 Credit Card Encryptor   Java, Cryptography

- Built an asymmetric encryptor that can generate, store, and use RSA 2048-bit keys in Java.
- Used the encyrptor to encrypt and decrypt data and ensured PCI DSS Compliance.

2022 Creating a SIEM   Elasticsearch, Kibana, Suricata

- Deployed Suricata servers to scan the network for suspicious events and Filebeat to parse and send events to Elasticsearch. Used Elastisearch to store and correlate security events.
- Implemented alerts, rules, and exception cases in Elasticsearch and visualized the data with Kibana.

2021 Network Probe Transmission with MAC Address Randomization   Bash Scripting

- Researched and implemented wireless propagations strategies and IEEE 802.11 protocols.
- Designed an experiment project to analyze probe transmissions using Wireshark and identified different devices that are using MAC address randomization to increase network security.

Education

University of Alberta

B.Sc. In Computer Engineering
Class of 2024
GPA – 3.6/4.0

Achievements

- ★ William Muir Edwards Award 2022
- ★ ESET Women in Cybersecurity 2022
- ★ Hero Training Scholarship 2022
- ★ Govt of Alberta Women in STEM 2022
- ★ University of Alberta President's Citation Scholarship for Academic excellence – 2019, 2020, and 2021

Certifications

AWS Certified Cloud Practitioner

Competitions

Won first place out of 20 teams in cybersecurity case competition sponsored by Google

Skills

Programming Languages

Python, C++ Java, SQL, Ruby, HTML, CSS, JavaScript, TypeScript

Tools, and Libraries

AWS: Route 53, SES, EC2, S3

Kali Linux, Ettercap, Metasploit, Nmap, John the Ripper, Pwntools, PyCrypto, Wireshark, BurpSuite, Jad Debugger

React, SQLite, Eclipse, MongoDB, TheHive

Other Activities

CTO of eevee Technologies Inc. – peer2peer equipment rental start-up.

Co-VP Academic Engineering Student Society at University of Alberta – 2022-23

Co-VP External Computer Engineering Club – 2022-23