Subah Mehrotra

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Education

Bachelor of Engineering
University of Victoria
Software Engineering

September 2015 to August 2020
Victoria, BC
Canada

Work experience

Security Consultant II (CSO Innovation DevOps Team)
- Developed and maintained 6+ compliance and eTools in an Agile team
- Temporary Scrum Master – led meetings with users, retro & sprint planning
- Performed data analysis and visualization using SQL, Splunk & Tableau
- Hands-on experience with ETL process and Pentaho development
- Implemented SSL encryption, improved infrastructure reliability & automate processes
- Set-up high availability infrastructure for Java Wildly and MySQL (Design & Implementation)
- Led replacement of a legacy IAM tool and a legacy CDR data retrieval tool (Design & Implementation)
- Experienced with on-call operations, software deployments and change management

TELUS
Present team + 1st GTLP Rotation
Burnaby, BC
March 2022 to present &
November 2020 to July 2021

Technology Specialist (TELUS Security Incident Response Team)
- Coordinated and facilitated security incident response for internal teams
- Actively detected latest vulnerabilities & threats. Proactively created exclusions to protect organization's network and assets against them
- Identified, investigated and mitigated major phishing campaigns
- Malware analysis and security innovation tools automation
- Experienced working with SIEM platforms like Splunk & ElasticSearch
- Successfully completed PIA (Privacy Impact Assessment) and SBD (Secure by Design) for a cloud migration project
- Tools – Elasticsearch/Kibana, Crowdstrike Falcon, Cortex XSOAR, Palo Alto Networks, Cisco OnRamp, RSA NetWitness and more….

August 2021 to April 2022
2nd GTLP Rotation

Graduate Technology Leadership Program (GTLP)
- A progressive, technical and leadership skills development rotational program
- Successfully completed 2 nine-month technical rotations in teams
- Led the GTLP Onboarding team as the Western Prime. Conducted and managed onboarding orientations for new GTLPS and Co-ops
- Provided 1-1 mentorship to Co-ops and supported them throughout their term

November 2020 to March 2022
Rotational Program

Cyber Security Analyst
- Developed cyber incident response playbooks (Ransomware, Data Breach, Unauthorized access, etc.)
- Performed vulnerability assessments using Nessus
- Went to 7 different cities within Canada to perform network scans for a client using Air Magnet Wi-Fi Analyzer for rogue access points
- Led client meetings and improved technical report writing skills

Deloitte
Victoria, BC
September to December 2019

Software Test Developer
- Worked on SMART Learning Suite Online (SLSO) and the Notebook IOS Player app
- Learned effective ways to develop auto tests and front-end web development (Python, JSON, Swagger)
- Managed and deployed code through various pipelines
- Our team got second place in 2018 Global SEE Summit Hackathon
- Led the Test Team for a couple weeks

SMART Technologies
Calgary, AB
January to August 2018

Automation Quality Assurance Designer

Nokia (IP Optical Networks)
Kanata, ON
January to April 2017

- Worked on 1830 Photonic Service Switch (PSS*)*
- Gained experience with Networking and Telemetry
- Developed effective auto tests using Python for data collection and transmission
- Various Application Program Interface (API) Integration

Languages, Libraries, Technologies, and Skills

- Java, JavaScript, C, Python, Selenium, SQL, Pentaho, ETL, Linux
- Crowdstrike Falcon, XSOAR, Cisco OnRamp, Wireshark, SonarQube, Kali Linux, OWASP
- Splunk, ElasticSearch, Tableau, Git, SVN, Jenkins, Confluence
- Agile Development, CI/CD, Incident Response, Malware Analysis, SDLC, Data Analysis

Extracurricular Activities

YouTube Channel – Subah Mehrotra   August 2021

- Recently started my own YouTube Channel – Informative, Lifestyle, and Travel vlogs in Hindi
- If you want to learn more about my life, please go subscribe!

Cyber Security Challenge Surrey 2019   January 2019

- Represented Uvic in the challenge in a team of four and secured a third place
- Was able to recon a vulnerable computer, break through the cyber defenses and take control of the system
- Learned about insecure networks, scanning ports and retrieved user credentials and private information
- https://cybersecuritychallenge.ca/cybersci-surrey/

Global SEE Summit Hackathon   July 2018

- Our team got second place in 2018 Global SEE Summit Hackathon
- Worked with 3 other developers and a few teachers from all around the world to develop a new feature for the SLSO website

Projects

. Converged Data Mediation (CDM) *[Using: SQL, Pentaho, Appian, Java]*   July – December 2022
Designed and developed a tool, replacing a legacy tool, to retrieve Call Detail Records (CDRs) from various data sources at TELUS. Developed the user interface in Appian and implemented the backend workflow in Pentaho using Extract, Transform, Load (ETL) methodology. Developed complex SQL queries to retrieve data from various data sources, implemented various features according to business requirements, and developed a full report generation program in Java.

. High Availability Infrastructure Setup *[Using: Java, Linux, MySQL, Control-M]*   January – July 2021
Designed and improved the high availability and reliability of the existing infrastructure of a SecDevOps team at TELUS. The infrastructure was used to host a bunch of different compliance and E-Tools in Java Wildfly. Setup Data Recovery Linux servers hosting Wildfly & MySQL, implemented automated data syncing between Primary and the DR servers, setup failover between PR and DR DNS', automated batch jobs, and scheduled jobs using Control-M. This helped in improving the overall reliability and availability of the tools by reducing outages and downtime.

. CyberRAT (Risk Assessment Tool) *[Using: Python, Django, Heroku]*   May – August 2019
Developed a Risk Assessment Tool that gathers all the publicly available information of a person from social media platforms and calculates a threat score, which indicates how vulnerable they are to Cyber incidents and phishing scams. This tool is ideal for organizations for checking how vulnerable their current and future employees are to phishing scams. It provides recommendations on how people can make their social media account more secure. It also includes a feature to send the scan reports to an email as a pdf.
https://github.com/subahm/CyberRAT