Samuel On

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EDUCATION

York University, Lassonde Engineering
(Honours) Bachelor of Engineering (B. Eng), Software Engineering   *Security Stream*
Toronto, ON

WORK EXPERIENCE

System Engineer, Intern   Jan. 2019 – Aug. 2019
Kapsch TrafficCom North America, Mississauga ON

- Provided support to interdisciplinary engineering teams within the organization in the design, development and testing of open road tolling systems
- Drafted engineering qualification reports and executed test plans/procedures
- Oversaw and collaborated with auditors to ensure internal KPI's were met.

IT Coordinator   Nov. 2016 – April 2021
York Federation of Students, Toronto ON

- Independently managed IT services for 15+ employees while enrolled full-time in Engineering
- Maintained the printers, computers and network of two external public printing services
- Worked with LAN and IP/TCP (subnetting, default gateways, IP addressing)

Team Projects

Building E-Commerce System
- Built restful web services that interact with Ajax-powered client apps
- Built a complete web application that incorporates analytics on the server, session management, and database access
- Used Java EE, JDBC, RESTful, Software Development Life Cycle phases

Software Engineering Requirements
- Solved various development scenarios by applying software architecture and design concepts, "ilities"
- Built Use Cases, Sequence Diagrams, Class Diagrams, UI Designs, and drafted a Software Requirement Specification
- Reviewed SRS submitted by another team and collaborated to develop a web application that reflected the SRS
- Implemented in React, MYSQL, SQL, Node.js and Figma

School Courses

Network Forensics/ Networking
- Analyzing a variety of different attack metrics, ICMP and TCP attacks, header abuse, ARP, IPv4, IPv6
- Preventive measures on how to detect and mitigate attacks, types of firewalls and configurations, understanding of the protection of the internal network using bastion hosts, DMZ, etc

Security Laboratory
- Understanding of computer system vulnerabilities, such as scripting and SQL queries, piggyback, illegal errors & others
- Application of hands-on experience in analyzing scripts, site vulnerabilities, malware, and database structures.

SKILLS & INTERESTS

- **Highlights:** Experienced in Agile, Object-Oriented Programming, Dynamic Programming, Runtime Algorithms.
- **Languages & Tools:** JavaScript, Java, React, SQL, Git, Visual Studio, JIRA, AWS (EC2 & S3), Spring, Linux
- **Interests:** Table Tennis, Bowling, Snowboarding, Dogs, and Exercising.