

Samuel On

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EDUCATION

York University, Lassonde Engineering

(Honours) Bachelor of Engineering (B. Eng), Software Engineering
Toronto, ON

Expected Fall 2021

WORK EXPERIENCE

System Engineer, Intern

Kapsch TrafficCom North America, Mississauga ON

Jan. 2019 – Aug. 2019

- 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

York Federation of Students, Toronto ON

Nov. 2016 – Current

- 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, React, 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 (SRS)
- 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.

Eiffel-Language Project (Software Design)

- Designed and built a game program based on an 80s game specification
- Built BON and UML diagrams based on the project design
- Applied Eiffel Testing Framework to my program to recreate the seeded generator move set of the original game.
- Implemented in Eiffel-DbC Language (Design by Contract)

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.