

# Samuel On

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## EDUCATION

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### York University, Lassonde Engineering

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

## WORK EXPERIENCE

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### System Engineer, Intern

Jan. 2019 – Aug. 2019

Kapsch TrafficCom North America, Mississauga ON

- Automated KPI sheets production with python numpy and pandas
- 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

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### 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

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- **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.