

# YOUSAF SHAHEEN



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Brampton, ON



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## QUALIFICATIONS

Python, Java, C, C# (.NET), SQL, Github, Bash, HTML, Javascript

## SKILLS

Dart (Flutter), LaTeX, WireShark, Firebase, Splunk, AutoCAD, MatLab, Arduino, Assembly, Soldering, Basic First Aid and CPR (2013)

## SOFT SKILLS

Analytical, Persistent, Problem Solver, Dependable, Effective Communicator, Adaptable

## EXTRACIRICULAR

- Building Computers – I have built my own custom computer in addition to repairing and upgrading laptops.
- Learning about sustainability including energy efficient automobiles.
- Documentaries and infographics – I enjoy watching documentaries mainly about science and technology on online streaming services.

## WORK EXPERIENCE

### Rogers Communications, Brampton, ON

Sept 2018 – April 2019

Network Co-op Student

- Worked in a team to implement a cellular Network Auditing Tool, NetAudit (Splunk) to monitor and report discrepancies among settings.
- Demonstrated problem solving skills by fixing and diagnosing issues in an Agile team environment, improving efficiency and productivity.
- Evaluated service quality by carrying out test plans and writing reports.
- Developed communication and interpersonal skills through coordinating and working with multiple teams concurrently.

### McLean Sherwood Event Rental, Brampton, ON

May 2018 – Sept 2018

Tent Installation Crew Member

- Worked in teams of 2-7 to install and take down outdoor event tents.
- Demonstrated reliability through punctuality and high quality of work.
- Helped clean and organize tent components after a completed contract.

## PROJECTS

- **NutriBud:** Worked in a team of 5 students to develop a nutrition tracking app with machine learning image recognition to determine nutritional information of food; developed leadership and teamwork skills through delegating tasks, cooperative coding.
- **GreenLight:** Worked in a team of 4 students to develop an application to determine safest route; utilized a database to determine the safest route based on frequency of accidents.
- **Hextris:** Worked in a team of 3 students to recreate an already existing open source game. Documented the process using LaTeX, Doxygen, and GitHub. Developed interpersonal and communication skills through group meetings, algorithm development and documentation.

## EDUCATION AND RELEVANT COURSEWORK

- **Bachelor of Software Eng. (Embedded Systems):** McMaster University 2020
- **Concurrent System Design:** Developed knowledge of concurrent system design including threads, semaphores, mutex, etc.
- **Data Structures and Algorithms:** Learned to implement software using different sorting algorithms, path finding algorithms and datatypes.
- **Databases:** Gained skills in database interaction; studied practice in addition to theory using a db2 database (MySQL).
- **Software Testing:** Developed skills in software testing and methodology.
- **Large System Design:** Studied different software architectures including SDLC and documentation.
- **Dynamic Systems and Control:** Modeling of physical systems in both discrete and continuous time, including stability analysis.
- **Real-Time Systems and Control Applications:** Developed knowledge about RTOS; studied safety classification, fail-safe design, scheduling, and real time system applications.
- **Engineering Stats:** Analysis relating to probabilities and statistics including data analysis, inference, regression, correlation, and analysis of variance.
- **Computer Networks and Security:** Improved knowledge relating to network architecture and the functionality implementation. Familiarized with internet and internet related protocols (TCP/IP, UDP, HTML, FTP, etc.).