

# Hamza Ashraf

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## Education

**B.Eng., Computer Engineering** 📍 McMaster University

Expected Apr 2022

- Relevant courses: Data Structures and Algorithms, Discrete Math, Statistics, Vector Calculus
- Dean's Honor List (2019-2020)

## Skills

**Languages:** Python, Java, C, HTML, CSS, JavaScript, MATLAB, Assembly

**Tools and Frameworks:** React, MongoDB, Bootstrap, Node.JS, Git/Version Control

## Projects

**LIDAR** 📁 Course Project

Sept 2018

- Designed and built an embedded special measurement system using Texas Instruments MSP432 uC and time-of-flight sensors to acquire information about the surrounding area.
- Employed a rotary mechanism to provide 360° measurement of distance within a single vertical geometric plane.
- Mapped spatial information was stored on onboard memory and later communicated to a personal computer for reconstruction and graphical presentation using the Python Open3D library.

**Cricket MatchMaker** 📁 Personal Project

Sept 2018

- Constructed a web application to allow users to co-ordinate timings amongst friends for cricket matches.
- An easy UI allows users to quickly enter their availability and also to check the schedules of their friends. Users with matching schedules are then notified.
- MongoDB, Express.js and Node.js were employed for backend functionality and front-end was constructed using HTML, CSS and JavaScript.
- The application gained 60 unique users within the first two weeks.

## Volunteer / Part-time Work

**Crew Member** 📁 Baskin Robbins 📍 Hamilton, ON

June 2019 - Feb 2020

- Managing and organizing stocks
- Learning customer service to assist people on the daily
- Demonstrated customer serviceability and trained cashier

**Hamilton Soup Kitchen Service** 📍 Hamilton, ON

Sept 2019 - Dec 2019

- Working bi-weekly as a chef and distributor at a soup kitchen teaching humility and concern for the less-privileged
- Supplying aid and assistance to persons of physical limits with a friendly and obliging attitude
- Learning time management and by cleaning up and closing after-hours on time

**Stewards of Cootes** 📍 Hamilton, ON

Sept 2019 - Feb 2020

- Cleaning up the Cootes conservation area along with other creeks and nature reserves ingraining an appreciation for nature
- Teaming up and communicating with students to gather trash and clear debris from streams and trails