

# Joshua A. Geddes

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## Skills

**Proficient** Python, HTML/CSS, JavaScript, Microsoft Office

**Familiar** Git, Java, C, Firebase, Figma, Tableau

## Experience

**Oakville Community FIRST Robotics Team** TEAM CAPTAIN

Oakville, Ontario 2019 - 2020

- Appointed by adult mentors to lead the 56-member team for the 2019/2020 FIRST Robotics Competition season, committing up to 25 hours per week to Team activities
- Kept Team focused on project tasks and deadlines in a fast-paced work environment (8-week build season, 3-month competitive season)
- Coordinated all Team activities, meetings, and major projects and initiatives while fostering a supportive environment
- Worked with industry technologies (Solidworks, Git) and machines during design and testing process
- Tuned teleoperated and autonomous robot code in Java, implementing advanced control loop and computer vision technologies
- Developed an offline scouting database system using Tableau and QR code data transfer for real time competition strategy analysis
- Worked on an initiative to 3D print and assemble face shields for frontline healthcare workers at the height of the COVID-19 Pandemic, with over 500 PPE items being donated
- Led the Team to winning the prestigious Regional Chairman's Award

**Longo's Brothers Fruit Markets Inc.** CUSTOMER SERVICE CLERK

Oakville, Ontario 2018 - 2021

- Facilitated organization of all front-end resources, including shopping carts and cleaning supplies while assisting customers in need with shopping and grocery carry-outs
- Provided on the job training to over 10 new employees
- Ensured COVID-19 regulations were being followed by maintaining customer traffic flow and administering screening questions
- Recipient of a 2021 Longo's University Scholarship for leadership, community involvement and academic success

## Education

**Queen's University**

2021 – 2025 (Expected)

- Bachelor's of Applied Science – Computer Engineering
- Relevant Courses – Computer Programming for Engineers, Graphics, Engineering Practice

## Project Highlights

**smART**

Hack The North 2021

- Web application that recommends artwork to users based off previous feedback on other pieces
- Backend in **Python** using **Tensorflow** to compare similarities between artworks. Frontend in **HTML/CSS** with **Flask** package to integrate. Server hosted with **Firebase** with Python code run in a **Docker** container

**Image Database**

2021

- Collection of web scraping applications to create a large database of images (200k) for training a start-up machine-learning model.
- Made in **Python** using the **Selenium** web driver and **BeautifulSoup** to grab and parse information.
- Using **gauth** and **Google Cloud**, mass amounts of information and corresponding images paired with IDs are uploaded for future analysis

**Compiler Bot**

EngHacks 2021

- Discord message bot that acts a live compiler for **Python** and **JavaScript** code by running input in shell, recording output and error streams, then sending a formatted output back through the Discord bot
- Made in **Python** using **discord.py** framework. Accompanying frontend website made in **HTML/CSS**

## Awards

**Canadian Computing Contest – Distinction**

2018, 2019, 2020, 2021

**Waterloo Euclid Mathematics Contest – Top 3% of Competitors**

2021

**Tech Under Twenty Cup – RBC Company Challenge Award**

2021

**DECA Personal Finance Virtual Business Competition – International 3<sup>rd</sup> Place**

2021

**Royal Conservatory of Music Level 10 Classical Piano Certificate – Honours With Distinction**

2020

**FIRST Robotics Regional Dean's List Award**

2020