# Ethan McAuliffe

3rd year Computer and Management Engineering student https://github.com/emcauliffe

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## **Education**

# McMaster University

Hamilton, ON

Bachelor of Computer and Management Engineering (Co-op)

Sept. 2018 - Present

- Completed 2.5 years (Cumulative 3.8 GPA)
- CompEng 2SI4 & 2SH4 Acquired an in-depth understanding of Python, C, and Java through lab work and testing (mark: 4.0 & 3.8 respectively)
- CompEng 2DI4 Developed knowledge on logic design and Verilog (mark: 4.0)

# Royal St. George's College

Toronto, ON

Ontario Secondary School Diploma (and AP credits)

Sept. 2014 - June 2018

 TEI4M - Learned the fundamentals of computer engineering through a variety of projects such as building a breadboard computer, programming PWM fan control with USART readout in assembly, and more

# Work Experience

# Software Developer (part-time)

Toronto, ON

Sojoodi Consulting Co.

Feb. 2021 - Present

- Building experience working on a small, fast-paced development team
- Applying Python, JavaScript, and Docker skills in a collaborative software development environment
- Creating software to modernize workflows at manufacturing facilities

## Risk and Control Automation Analyst

Toronto, ON

Royal Bank of Canada

Jan. 2021 - Present

- Praised for improvements to team efficiency and organization by migrating task management system from a written document to Jira
- Refining JavaScript abilities through development of automated control testing scripts
- Gaining experience working with Jira, Confluence, and ServiceNow

## Software Engineering Intern

Toronto, ON

 $RT7\ Inc.$ 

May 2019 - Aug. 2019

- Contributing member of a development team in a work environment
- Wrote documentation for existing Swift codebase
- Rebuilt existing product from scratch with React Native, uniting Android and iOS codebases
- Practised attention to detail when generating new apps and publishing with accurate info to the App Store

Summer Intern Toronto, ON

Achiga Inc. & Concierge Plus

Jul. 2018 - Aug. 2018

- Reduced accounts receivable over 90 days by 80+% through effective communications with past due customers
- Extensive experience identifying and eliminating anomalies with money records/data
- Developed professional interpersonal skills through daily interaction with customers

#### **Extracurriculars**

#### Software Team Lead at McMaster Mars Rover

Jul. 2020 - Present

McMaster University

- Coordinate and participate in the development of software for the McMaster mars rover with a team
  of bright and motivated individuals
- Work with ROS (Python & C++) to create a rover capable of autonomously or manually completing tasks like GPS waypoint navigation, obstacle avoidance, precise arm control, object detection, environment mapping (SLAM), and more

SHAD Valley Jul. 2017

Lakehead University

- Placed 1st regionally & qualified for national SHAD Cup competition

Ice Hockey 2006 - Present

- Former member of rep level hockey, high school varsity teams
- Instrumental in my development of teamwork skills and ability to work in a fast-paced environment

# **Personal Projects**

# Bottles Against COVID (https://bottlesagainstcovid.org)

- Built a full-stack website to facilitate contactless bottle drives during the COVID-19 pandemic
- Ran a bottle drive every week and raised over \$3000 for St. Joe's Hospital in Toronto

## Seat Alert (https://seatalert.ca)

- Built a website where students can sign up to receive email and text alerts when a seat becomes available in a course they are interested in
- Frontend in React with a FastAPI backend and a custom Python package to query public university databases

## 4-Bit Transistor-Transistor Logic (TTL) Computer

- Gained extensive knowledge in the working of computers on a binary programming level

## Volunteering

## Technical Assistant (TA)

Royal St. George's College

Sept. 2017 - Jun. 2018

- Selected for a leadership role teaching younger students basic electronic circuits, Arduino programs, and technical writing

## Selected Skills

– Java	- Verilog	$- I^{2}C, SPI, U(S)ART$
- Git	- AVR Assembly	– EAGLE PCB design
- Python	– JavaScript (& ReactJS)	– *NIX Systems
- C & C++	- MATLAB	– Quartus II
– Docker	- Bash $(+zsh)$	– Jira, Confluence, Trello