# 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 labwork 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

## Risk and Control Automation Analyst

Toronto, ON

Royal Bank of Canada

Jan. 2021 - Present

- Gained experience working with Jira, Confluence, and ServiceNow
- Very recently started working in this position

## 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
- Gained experience with GUI development through collaboration with design team

Summer Intern Toronto, ON

Achiqa Inc. & Concierge Plus

July 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

# **Personal Projects**

#### **Bottles Against COVID**

- 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

## DeltaHacks VI Hackathon - StoryTime

- Worked in a team of 3 to build a React Native mobile application + REST API backend to generate short stories for users to read instead of scrolling through social media feeds

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

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

#### **Extracurriculars**

#### Software Lead at McMaster Mars Rover

July 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 to create a rover capable of autonomously or manually completing tasks like GPS waypoint navigation, obstacle avoidance, precise arm control, object detection, environment mapping, and more

SHAD Valley July 2017

Lakehead University

- Worked with other participants from across the country to develop a product and a business plan
  with the goal of reducing the energy footprint of individual Canadians
- Placed 1st regionally & qualified for national SHAD Cup competition

Ice Hockey 2006 - Present

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

# Volunteering

# Technical Assistant (TA)

Royal St. George's College

Sept. 2017 - June 2018

- Selected for a leadership role teaching younger students basic electronic circuits, Arduino programs, and technical writing
- Assumed a position of responsibility requiring maintenance and supervision of school workspace

#### Skills

Software	Programming Experience	Communication
- Git	- Java	- English
– Flask & FastAPI	- Python	- French (DELF B1
– EAGLE PCB design	- C & C++	Certified)
- Autodesk Inventor &	– Verilog	
Fusion 360	- AVR Assembly	
$-$ LAT $_{ m E}$ X	- JavaScript	
- Nginx	– ReactJS & React Native	
- *NIX Systems (Debian,	- Swift	
FreeBSD, OS X)	- MATLAB	
– Quartus II	- Bash (zsh)	
- Atmel Studio 7	$-~\mathrm{I^2C}$	

SPIUSART