

# Ethan McAuliffe

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

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## Education

### McMaster University

*Bachelor of Computer and Management Engineering (Co-op)*

Hamilton, ON

Sept. 2018 - Present

- Completed 2nd year Engineering (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)

### Royal St. George's College

*Ontario Secondary School Diploma (and AP credits)*

Toronto, ON

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 Engineering Intern

*RT7 Inc.*

Toronto, ON

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
- Learned JavaScript and development best practices in the process
- Practiced attention to detail when generating new apps and publishing with accurate info to the App Store

### Summer Intern

*Achiga Inc. & Concierge Plus*

Toronto, ON

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

### 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

## 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

## Extracurriculars

### 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

## Skills

### Software

- Git
- Flask
- EAGLE PCB design
- Autodesk Inventor & Fusion 360
- L<sup>A</sup>T<sub>E</sub>X
- Nginx
- \*NIX Systems (Debian, FreeBSD, OS X)
- MongoDB
- VSCode
- Xcode
- Atmel Studio 7
- QuickBooks, QuickBooks Online
- MS Office
- Google Analytics

### Programming Experience

- Java
- Python
- C
- C++ (Arduino)
- AVR Assembly
- JavaScript
- ReactJS & React Native
- Swift
- MATLAB
- Bash (zsh)
- I<sup>2</sup>C
- SPI
- USART

### Communication

- English
- French (DEL F B1 Certified)