Ethan McAuliffe

3rd year Computer and Management Engineering student

https://github.com/emcauliffe

(416) 559-5145

ethan@emcauliffe.ca

https://emcauliffe.ca

Education

McMaster University　　　　　　　　　　　　　　　　　　　　　　　Hamilton, ON
Bachelor of Computer and Management Engineering (Co-op)　　　　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　　　　　　　　　　　　　　　　　　　　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 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, learning 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　　　　　　　　　　　　　　　　　　　　　　　　　Toronto, ON
Achiga 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

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

– Atmel Studio 7
– VSCode
– Xcode
– Git
– EAGLE PCB design
– Autodesk Inventor & Fusion 360
– *NIX Systems (Debian, FreeBSD, OS X)
– QuickBooks, QuickBooks Online
– MS Office
– Google Analytics
– Flask
– MongoDB
– LaTeX
– Nginx

Programming Experience

– Java
– Python
– C
– C++ (Arduino)
– AVR Assembly
– JavaScript
– ReactJS & React Native
– Swift
– MATLAB
– Bash (zsh)
– I^2C
– SPI
– USART

Communication

– English
– French (DELF B1 Certified)