

Ethan McAuliffe

3rd year Computer and Management Engineering student
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Education

McMaster University

Bachelor of Computer and Management Engineering (Co-op)

Hamilton, ON
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

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 Developer (part-time)

Sojoodi Consulting Co.

Toronto, ON
Feb. 2021 - Present

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

Risk and Control Automation Analyst

Royal Bank of Canada

Toronto, ON
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

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
- Practised attention to detail when generating new apps and publishing with accurate info to the App Store

Summer Intern

Achiga Inc. & Concierge Plus

Toronto, ON
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

- 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

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
- Assumed a position of responsibility requiring maintenance and supervision of school workspace

Personal Projects

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 (utilizing async libraries)
- Over 3k active users for fall & winter semesters in the first week of operation

Bottles Against COVID (<https://bottlesagainstdcovid.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

4-Bit Transistor-Transistor Logic (TTL) Computer

- Gained extensive knowledge in the working of computers and computer architecture

Selected Skills

- | | | | | |
|--------------|---------------|-----------|--------------------------|--------------|
| – Java | – Bash (+zsh) | – Robot | – ReactJS & | – EAGLE PCB |
| – Python | – MATLAB | Operating | React Native | – Quartus II |
| – C | – AVR | System | – Docker | – *NIX |
| – JavaScript | Assembly | – Flask & | – I ² C, SPI, | Systems |
| – Verilog | – Git | FastAPI | U(S)ART | |