

## Experience

### Capital One Canada

Software Engineering Intern

May 2019 - August 2019

- ▶ Engineered UI library used by Customer Acquisition teams in **production**, reducing their codebases by over **90%**
- ▶ Guided **tech stack migrations** for the Canadian web teams by instituting process standards, running workshops and contributing core components to ensure UX consistency for sites serving over **10,000 customers weekly**
- ▶ **Doubled** deployment frequency by standing up a CI/CD pipeline to **automate** build, test, and publish procedures
- ▶ Developed CLI utility for **bootstrapping** applications with internal libraries, **expediting** the development cycle
- ▶ Mentored and on-boarded two software engineering interns to foster an inner-source environment

*React, JavaScript, Node, Jest, Enzyme, Jenkins*

### Sunnybrook Research Institute

Software Development Intern

July 2018 - August 2018

- ▶ Reworked treatment-monitoring program to run **80% faster** and process larger datasets in real-time
- ▶ Revamped data pipeline by **reducing memory-transfer requirements** among compute devices by **50%**
- ▶ Ported OpenGL render from CUDA Runtime to Driver API for lower levels of abstraction and full kernel control

Software Development Intern

July 2017 - August 2017

- ▶ Implemented program to automatically transform large 3D medical images for a set of algorithms to replace manual entry, improving ease of use and **reducing operation time twofold**
- ▶ Assisted configuration of virtualized Linux servers on which to run treatment-planning computations

*C++, CUDA, OpenGL, Python, NumPy, Tkinter*

### FIRST Robotics Canada, Team 4914

Team Captain, Head Programmer

December 2015 - June 2018

- ▶ Introduced use of vision for goal tracking by implementing an OpenCV pipeline to lower aim-time by **60%**
- ▶ Improved drivetrain consistency by using PID controllers, achieving accuracy to a **2" tolerance**

*Java, Python, OpenCV, SolidWorks, Autodesk Inventor, WPILib*

## Projects

### Markdown to HTML converter

Markdown utility converting GitHub-flavored Markdown to HTML documents

[GitHub repo >](#)

C++

### Pool simulator

8-ball simulator, under development, coupling a physics engine and graphics library

[GitHub repo >](#)

Python, pygame, pymunk

## Achievements

### Google Code Jam 2019

Round 2 qualifier

### Canadian Computing Competition 2018

Top 4%

### USA Computing Olympiad

Gold Division since 2017

## Education

### University of Waterloo

Honours Computer Science (Co-op)

- ▶ Cumulative GPA: 3.93 / 4.00
- ▶ Candidate for Bachelor of Computer Science
- ▶ Pursuing specialization in Data Science
- ▶ Anticipated graduation: April 2023