

## 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 volumes 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