

## Experience

**Software Engineering Intern**  Wealthsimple  Toronto Sept - Dec 2019

- Developing backend to **increase speed** and **reliability** of deposits and withdrawals using **Ruby on Rails**

**Data Scientist Intern**  Office of the Director of National Intelligence  Washington, DC Aug 2019 - Apr 2020

- Researching **data compression techniques** for high-volume, encrypted DNA data

**Software Development Engineer Intern**  Publicis Sapient  Toronto June - Aug 2019

- Developed a **machine learning** powered chatbot by employing K-Means Clustering on click-stream data
- Coded responsive, location based front-end component seen by **1.5 million** users
- Analyzed the performance of \$500 million+ eCommerce site to identify bottlenecks, resulting in faster load times

**Web Developer**  Chow-Fraser Lab  McMaster University Sept - Dec 2018

- Developed a site to **aggregate** and **analyze** data from conservation regions across Canada to enable users to self-report chlorophyll levels in natural water reserves
- Visualized data using **D3.js** to inform research into water quality, resulting in identification of key conservation zones

**Software Engineer Intern**  Pickup Rideshare  Hamilton Apr - Aug 2018

- Architected a **matching algorithm** (Gale-Shapley) to match riders with available drivers
- Engineered a progressive web app using **React**, redesigned the home page to increase customer retention by **20%**

**Multi-Organ Transplant Researcher**  Toronto General Hospital  Toronto May - Aug 2017

- Developed a **machine learning algorithm** in Python that uses **support vector machines** to classify liver disease, resulting in early diagnosis without biopsy or invasive procedures, using a dataset of eleven **clinical features**
- Trained and **validated** machine learning models by normalizing and cleaning patient data
- **First author** on Meta-Analysis published in the Canadian Liver Journal **bit.ly/nashgen**

## Education

**B.Eng, Electrical & Biomedical Engineering (Co-op)**  McMaster University Expected Apr 2021

- **Deans Honor List** (2016-2018), Honors Entrance Scholarship (**\$2000**), **3.4/4.0** GPA
- Relevant courses: **Data Structures and Algorithms**, Discrete Math, Statistics, Vector Calculus, Molecular Biology

## Skills

**Languages:** Python, Java, C, C++, JavaScript, Swift, MATLAB, Assembly, HTML/CSS, SQL

**Tools and Frameworks:** Pandas, Bootstrap, TensorFlow, React, Firebase, Node.JS, Android Studio, Git/Version Control

## Projects

**Unmask**  Personal Project Aug 2019

- Developed a computer vision application using Ruby on Rails to analyze media sentiment based on pictures of faces
- Trained a **facial recognition model** using **OpenCV** on Amazon Web Services and deployed on the cloud

**Strive**  MedHacks [bit.ly/striveJHU](https://bit.ly/striveJHU) Sept 2018

- **2nd of 200+** teams at MedHacks, Johns Hopkins University
- Utilized computer vision (**Google Vision API**) to extract nutritional info from user uploaded pictures of food, allowing users to track their calories in a virtual food diary