

## Education —

### Bayview Secondary School

*International Baccalaureate Diploma*

Richmond Hill, Ontario

*September 2017 - Present*

- **Relevant Courses** - Chemistry (HL), Economics (HL), English (HL), Biology (SL), Calculus (SL), French (SL), TOK (SL)
- **Academic Performance** - Honour Roll (2017 - Present). Junior year average: 95.0%
- **Alternative Coursework and Certification** - Harvard CS50x (edX) , Stanford Machine Learning (Coursera)

## Work Experience —

### The John Dick Lab, Princess Margaret Cancer Centre, UHN

*Research Intern*

Toronto, Ontario

*September 2020 - Present*

- Researching the elucidation of mechanisms that premise the stemness state of human hematopoietic stem cells and leukemia stem cells for development of biomarkers and targeted therapeutics

### The Pugh Lab, Princess Margaret Cancer Centre, UHN

*Student Researcher*

Toronto, Ontario

*October 2020 - Present*

- Researching novel single-cell RNA sequencing techniques to profile heterogeneous tumor microenvironments at single-cell resolution to understand drug resistance, stem cell programs and tumor progression
- Advancing the development of CRESCENT- an intuitive and containerized pipeline execution engine for standardized analysis of single-cell RNA sequencing data including normalization and cell clustering

### The Grover Lab, St. Michael's Research Centre

*Keenan Research Summer Student*

Toronto, Ontario

*June 2019 - July 2019*

- Researched the transfer of endoscopic skills with an endoscopic simulation curriculum using EndoVR (CAE Healthcare) - a high-fidelity interventional virtual reality endoscopic simulator
- Supported UoFT Medical residents (course participants) in troubleshooting difficulties with the virtual reality system, assisting with data entry tasks, patient roleplays and reporting simulation-collected performance metrics

### Baylor Scott and White Health

*Summer Intern*

Dallas, Texas

*August 2019*

- Shadowed physician rounds working in fields of trauma, cardiovascular diseases and internal medicine in both the hospital and out-patient clinic environment

### Spastics Society of Karnataka- Centre for Developmental Dissabilities

*Teaching Assistant and Curriculum Developer*

Bangalore, India

*July 2017*

- Developed computational literacy and English curriculums and assisted with teaching in classroom setting of 20 students while hosting 1on1 mentorship sessions during lunch and after school
- Created 100-slide interactive life skills powerpoint series

## Volunteer Experience —

### The York Region Presidents' Council

*Prime Minister*

York Region, Ontario

*September 2018 - Present*

- Coordinated 11 executives to conceptualize and execute monthly general assemblies and bi-annual conferences attracting student representatives from 33 secondary schools across the York Region District School Board
- Represented 130,000 students of YRDSB at school board meetings
- Increased event attendance from 20 to 1,300 (virtual) attendees in 3 years and grew social media 6,000%
- Secured \$30,000 in funding and created sponsorship materials to collect \$3,000 of monetary and in-kind donations

## The Richmond Hill's Youth Action Committee

Director of Logistics

Richmond Hill, Ontario

September 2016 - Present

- Coordinated internal team of 35 members for the conceptualization and execution of city-wide events to promote community involvement for youth of Richmond Hill, attracting nearly 300 event attendees
- Created sponsorship materials, collecting total \$1,500 worth of donations and event programmes/itineraires

## Bayview Secondary School Student Council

Grade 9 Representative

Richmond Hill, Ontario

September 2017 - June 2018

- Represented 400+ Grade 9 students and invited to represent Bayview at the YRDSB Unity Rally, Ring of Peace
- Contributed to the execution of school events, fundraisers and semi-formal for over 1,500 students

## First Nations High-Five Initiative

Founder and Chairman

Thunder Bay, Ontario

September 2016 - September 2017

- Coordinated internal volunteer team of 50 students to launch community-wide fundraisers, collecting \$4,500 in school supplies donations for the Nibinamik (Summer Beaver) First Nations Reserve in Thunder Bay, Ontario

# Projects Highlights —

### Ryde- Autonomous Vehicles. Democratized | [Learn More](#)

[Company Website](#)

- Open-source self-driving software to democratize autonomous vehicles
- Leverages bluetooth to interface vehicle diagnostics with a smartphone application, enabling self-driving features

### Sidewalk Labs Consulting Recommendation | [Learn More](#)

[November 2019 - February 2020](#)

- Created innovation plan to reduce household expenditures through shared economics and an end-to-end platform that monetizes personal assets (selected from 35 teams to present at Sidewalk Labs headquarters to C-level team)

### Kidogo Consulting Recommendation | [Learn More](#)

[March 2020 - April 2020](#)

- Increased mamapreneur profits with community sensitization workshops, sack farming pilot programs, revamped the curriculum research and development process and expedited strategic partnership contracts

### Polyp Detection | [Learn More](#)

[Github Repository](#)

- Leveraged convolutional neural networks with an accuracy rate of 93% (20% higher than industry)

### Apple Stock Prediction | [Learn More](#)

[Github Repository](#)

- Used an LSTM Network to predict Apple Stock Prices with an accuracy rate of 98.3%

# Skills Summary —

- **Programming Languages** - Python, HTML, CSS, Javascript, C/C++
- **Platforms and Technologies** - Tensorflow, NumPy, Pandas, Scikit-Learn, Git
- **Miscellaneous Skills** - Guitar, Cooking, Hockey, Running, Philosophy