

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). Current weighted average: 96%
- **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

- Identifying prognostic and predictive biomarkers and profiling tumour ecosystems with single-cell RNA sequencing to elucidate the mechanisms and interactions of Acute Myeloid Leukemia for targeted therapeutics development

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 proliferation
- 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, hematology, and internal medicine in both the hospital and out-patient clinic environment at Texas' largest healthcare system

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 1-on-1 mentorship sessions
- 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 execute monthly general assemblies and bi-annual conferences for students from 33 secondary schools. Organized school board's largest student-run mental health and student wellbeing conference
- 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 was 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, Matplotlib, Git, Scanpy, Anndata
- **Miscellaneous Skills** - Guitar, Cooking, Hockey, Running