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### **Education** —

### **Bayview Secondary School**

Richmond Hill, Ontario

International Baccalaureate Diploma

September 2017 - Present

- Relevant Courses Chemistry (HL), Economics (HL), English (HL), Biology (SL), Calculus (SL), French (SL), Theories of Knowledge (SL), Extended Essay (Computer Science): Emerging quantum cryptography and encryption systems
- Academic Performance Honour Roll (2017 Present). Current Grade 12 weighted average: 97%
- Alternative Coursework and Certification Harvard CS50x (edX), Stanford Machine Learning (Coursera)

## Work Experience —

### The Pugh Lab, PM-OIRC Translational Genomics Cancer Laboratory, UHN

Toronto, Ontario

Student Researcher

October 2020 - Present

- Conducted high-resolution examinations of tumour DNA, RNA and epigenetic marks from primary tumour biopsies and developed bioinformatic tools to support clinical laboratory workflows
- Advancing the development of CReSCENT (<u>crescent.cloud</u>) a containerized, web-based, pipeline execution engine for standardized analysis of single-cell RNA sequencing data including normalization and cell clustering

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

Toronto, Ontario

Research Intern

September 2020 - Present

- Profied tumour microenvironments using single-cell genome sequencing technologies to identify prognostic biomarkers and develop targeted therapeutics for Acute Myeloid Leukemia through genomic characterization
- Applied machine learning approaches to map mechanisms of disease to clinical outcomes and identify patient groups from their clinical signatures to quantitatively assess drug effectiveness in Acute Myeloid Leukemia

Ryde AI Toronto, Ontario

Co-Founder and Chief Executive Officer

April 2020 - Present

- Currently developing open-source self-driving software, leveraging bluetooth to interface vehicle diagnostics with a smartphone application to enable self-driving features like automated lane centering and adaptive cruise control
- Developed <u>company website</u>, mobile application, machine learning models, and conducted consumer feedback surveys, market analysis, and <u>investor pitches</u> (Amazon investor pitch finalists, Sparkteen accelerator finalists)

Kidogo Nairobi, Kenya

Project Consultant

November 2019 - February 2020

• Created an <u>innovation plan</u> to increase mamapreneur profits 43% and reduce childhood malnutrition with community sensitization workshops, sack farming pilot programs, a revamped curriculum research and development process and strategic partnership contracts

### Sidewalk Labs

Toronto, Ontario

Quayside Project Consultant

November 2019 - February 2020

• Created an <u>innovation plan</u> to reduce household expenditures through a sharing economy digital infrastructure that monetizes personal assets (selected from 50 teams to present at Sidewalk Labs headquarters to C-level team)

#### Baylor Scott and White Health

Dallas, Texas

Summer Intern

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

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

Toronto, Ontario

Keenan Research Summer Student

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

## Leadership and Volunteer Experience —

### The York Region Presidents' Council

York Region, Ontario

September 2018 - Present

Prime Minister

- Coordinated 11 executives to execute monthly general assemblies for students from 33 secondary schools (increased
  event attendance from 20 to 1,300 attendees in 3 years), and represent 130,000 students of the York Region District
  School Board at board meetings
- Secured \$30,000 in funding and created sponsorship materials to collect \$3,000 of in-kind donations to launch BLAST (Breaking Labels and Stigmas Together), the school board's largest annual mental health conference

### The Richmond Hill Mayor's Youth Action Committee

Richmond Hill, Ontario

Director of Logistics

September 2016 - Present

- Coordinated internal team of 35 members for the conceptualization and execution of 5 annual, 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

#### **TEDxYouth Toronto**

Toronto, Ontario

Youth Organizer

June 2018 - November 2019

- Sourced event speakers (Olympic gold medalists, world-class photographers and performers, Dragons Den Investors and Masterchef Champions), and sustained sponsorships with Western Ivey, RBC, Shopify and UofT
- Coordinated strategic marketing strategies; personally responsible for procuring 20% of event applications

### Bayview Secondary School Student Council

Richmond Hill, Ontario

Grade 9 Representative

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

Thunder Bay, Ontario

Founder and Chairman

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

### Karnataka Centre for Developmental Dissabilities

Bangalore, India

Teaching Assistant and Curriculum Developer

July 2017

- Developed computational literacy and English curriculums and assisted with teaching in classroom setting of 20 students while volunteering 1-on-1 mentorship sessions during after-school hours
- Created 100-slide interactive life skills powerpoint series and mental health resource package for students

# Skills Summary —

- Programming Languages Python, R, HTML, CSS, Javascript, C/C++
- Platforms and Technologies Tensorflow, NumPy, Pandas, Scikit-Learn, Matplotlib, Git, Scanpy
- Miscellaneous Skills Guitar, Cooking, Hockey, Cardio