



RESEARCH INTERESTS	Computational biology algorithms, computational genomics, research informatics	
EDUCATION	University of Toronto , Toronto, Ontario Canada B.Sc., Bioinformatics and Computational Biology Specialist September, 2017 - present	
COMPUTING SKILLS	<ul style="list-style-type: none"> • Data Analysis: Hypothesis Testing and Statistical Estimation, Data Visualization, Supervised and Unsupervised Statistical Learning. • Languages: R, Python, Java, C, SQL, \LaTeX, regex, HTML, Linux/UNIX shell scripting. • Applications: Version control systems for team projects (SVN and Git), Docker, Common spreadsheet and presentation software • Mathematics: Multivariable Calculus, Linear Algebra, Computational theories, Data Structures and algorithm designs. • Operating Systems: UNIX/Linux, Windows. 	
LABORATORY SKILLS	<ul style="list-style-type: none"> • General Laboratory: Pipetting, Filtration, Titration, Media Preparation, Glassware cleaning. • Biochemistry: PCR, Electrophoresis, Blotting, theoretical knowledge of chromatography, column, and florescent antibody techniques • Instruments: Optic microscopes, Vortex mixers, Centrifuges, Spectrophotometers. 	
EXPERIENCE	University of Toronto , Toronto, Ontario, Canada <i>Undergraduate</i> <i>Software Development</i> October - December, 2018 <ul style="list-style-type: none"> - As a team of 4 together developed an Android application. (see project section below for details) - Gained experience in managing a development team as a leader by planing a project schedule, teaching the team members how to work remotely using version control system, assigning tasks to the team members, holding multiple in-person meetings and organising a team project presentation. <i>Analysis of Toronto Break and Enter Crime Data in 2019</i> March, 2020 <ul style="list-style-type: none"> - A collaborative project jointly conducted by the University of Toronto and the Toronto Police Service to analyse real data on Break and Enters in Toronto during 2019. - As an accidental leader in charge of a team of 4, I was responsible for selecting appropriate statistical methods for analysing large datasets, integrating team members' ideas and boiled them down to actual code. <i>STEM Fellowship Big Data Challenge 2020</i>  May, 2020 <ul style="list-style-type: none"> - Statistical analysis employing supervised and unsupervised machine learning methods to explain severity of COVID-19 transmission in 144 countries using variables that reflect their economic development and population heath status. - Assembled a team of 4 as a leader who signed up for the contest, planed a project schedule, assigning roles and responsibilities, provided guidance to the team members and organised multiple online meetings while also responsible for performing all the data analyses and revising the project report. 	
PROJECTS	Game Centre  - <i>An Android application containing three classic games available.</i> <ul style="list-style-type: none"> • Developed with the basic software design principle (SOLID) in mind, and employed various design patterns such as adapter and abstract factory to enhance code reusability and extendibility. • Implemented three mobile games, a user profile management system, a score-based and a time-based player ranking system. 	

Analysis of Toronto Break and Enter Crime Data in 2019

- *A statistical study to discover factors behind B&E crime occurrences in Toronto*

- Applied various hypothesis testings and supervised machine learning methods and translated the result into readable visual representation.