

## EDUCATION

### Hons BSc., 4th year Bioinformatics and Computational Biology Specialist

Sep 2015 - Jun 2019

University of Toronto, Toronto, ON

Courses taken: Data Structures, Programming on the Web, Introduction to Databases, Software Design, Mathematical Expression and Reasoning for Computer Science, Software Tools and Systems Programming, Theory of Computation

## WORK EXPERIENCE

### Software Developer

May 2017 - present

Princess Margaret Bioinformatics and Computational Genomics Laboratory

- PharmacODB: front-end data visualization and UI/UX design, back-end database maintenance/optimization, task automation, and deployment in d3.js, Ruby on Rails and MySQL. (<http://pharmacodb.ca>)
- XevaDB: front-end data visualization and interface development in d3.js.
- PharmacODB-Pachyderm: front-end interface design and development in Bootstrap, jQuery, HTML/CSS.
- Drug Network Fusion: front-end data visualizations and UI/UX improvements in Angular, d3.js, Cytoscape.js. (<http://dnf.pmgenomics.ca>)
- Established good coding practices in lab

### Front-end Developer

Sep 2016 - May 2017

Provant Lab, University of Toronto

- Created an ePlant Navigator phylogenetic tree using d3.js, JS, jQuery for ePlant. (<http://bar.utoronto.ca/eplant>)
- Mentored an undergraduate student during his project in d3.js/Cytoscape.js for ePlant.

## SKILLS

Expert	JavaScript(d3, jQuery), Ruby on Rails, Python, HTML/CSS, REST, MySQL
Intermediate	NodeJS, Express, Java, C
Learning	React, MongoDB, Bootstrap
Other	Adobe Photoshop/Illustrator, Git/GitHub, Unix/Linux, R

## PROJECTS

### d3 Plots

Personal

A compilation of plots in d3.js with demos - UpSet, donut, bar, waterfall

### Recapify

Personal

A web app in Ruby on Rails and d3.js using the Spotify API to display top tracks and artists in collage form.

### Summarized

Personal

A simple dynamic web app in React and NodeJS that displays the time and a to-do list

### Moodvie

Course-work

A single-page web app in NodeJS, Express, MySQL, and HTML/CSS using TheMovieDB API that displays and recommends you movies based on a questionnaire, with REST APIs for user management and a movie database.

## OTHER

### Research Student Reimand Lab, Ontario Institute of Cancer Research

Sep 2018 - present

- Scripting in R for processing/statistical analysis of RNA-binding protein datasets.

### Research Student Parkinson Lab, SickKids Research Institute

Sep 2017 - Apr 2018

- Scripting in R, Python and Bash for processing/statistical analysis of fecal microbiome datasets.

### ARCT Performance Degree, Grade 9 Gold Medal Royal Conservatory of Music

2015

- Recognized for the highest mark in Ontario for my grade 9 piano practical exam