Chantal Ho

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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 and JS.
- Drug Network Fusion: front-end data visualizations and UI/UX improvements in d3.js and Cytoscape.js. (http://dnf.pmgenomics.ca)
- Established good coding practices in lab

Front-end Developer　　`Sep 2016 - May 2017`

Provart 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	MongoDB, React, Bootstrap
Other	Adobe Photoshop, 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.

Moodvie　　Course-work

A single-page web app in NodeJS, Express, MySQL, and HTML/CSS using TheMovieDB API that displays new releases, most popular movies, and recommends you movies based on a questionnaire. Also implemented 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