

# Chase Xu

<https://chasexu.com>  
chase.xu@gmx.com | 204-396-1116

## EDUCATION

### UNIVERSITY OF VICTORIA

BSc MAJOR IN COMPUTER SCIENCE • Co-OP  
Co-OP  
Expected Spring 2021 | Victoria, BC

## COURSEWORK

### UNDERGRADUATE

Web Development I  
Data Mining  
Database Systems  
Operating Systems  
Intro to Artificial Intelligence  
Object-oriented Computing  
Algorithms and Data Structures I & II  
Software Development Method  
Intro to Computer Architecture  
Numerical Analysis  
Music Retrieval Techniques  
Computer Communication and Networks

### UDEMY

React - The Complete Guide  
The Complete JavaScript  
Python for Data Science and Machine  
Learning Bootcamp

## SKILLS

### PROGRAMMING

Most Experienced

Java • Python • JavaScript • C  
CSS • HTML

Familiar:

Scikit-learn • TypeScript • JQuery •  
PostgreSQL • Pandas • Angular • Dash •  
SQL • L<sup>A</sup>T<sub>E</sub>X

## LINKS

Portfolio:// [Chase Xu's Portfolio](#)  
Github:// [chase-xu](#)  
LinkedIn:// [chase-xu](#)

## EXPERIENCE

### UNIVERSITY OF VICTORIA | NET ZERO NAVIGATOR DEVELOPMENT

Jan 2020 – May 2020 | Victoria, BC

- Linux environment development using python, Pandas, SQL, geomeppy, and EnergyPlus.
- Add functionalities to and manipulate data in BESOS (Building and Energy Simulation, Optimization and Surrogate-modelling).
- Net-zero navigator web app development and deployment with flask.
- Test and build Neural Networking model that integrated with building model simulation using Scikit-learn.

## PROJECT

### DATA COMPRESSION | SOFTWARE DEVELOPMENT METHOD ASSIGNMENT

Aug 2018 - Dec 2018 | University of Victoria

- Data compression assignment in C, move-to-front and run length coding are used. Each time of compression should not be longer than 15s.

### FILE SYSTEM | OPERATION SYSTEM

Sep 2019 - Dec 2019 | University of Victoria

- Given a file disk image, the following manipulations are performed in C: Display information of the file system by reading super blocks and FAT. Display the contents of the root directory or a given sub-directory in the file system. Copies a file from the file system to the current directory in Linux.

### TUTOR ME | A WEB APP FOR BOTH STUDENTS AND TUTORS

Sep 2019 - Present

- A single-paged React web app is designated to offer a platform for students and tutors.
- Students can register account using google authentication, and all data is stored in google firebase.

### BURGER BUILDER | A BURGER ORDER WEB APP

Aug 2020 - Present

- Sample here.
- A React web app is used for customers to build and make order for their customized burgers.
- The app has functionalities that are customizing burger, calculating prices, checkout summary, and sending orders.
- The app stores and retrieves the data dynamically with google firebase.

### MOVIE RECOMMENDATION FILTER | DATA MINING PROJECT

May 2020 - Aug 2020 | University of Victoria

- Team with four classmates to build and analyze a movie recommendation system using collaborative filtering algorithm.
- Two kind of Collaborative filtering algorithm were used: model based and item based. Item based CF was using cosine and Pearson similarity as approaches, and Model based CF was using SVD.