

Chase Xu

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

EDUCATION

UNIVERSITY OF VICTORIA

BSc MAJOR IN COMPUTER SCIENCE •
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^AT_EX

LINKS

Github:// [chase-xu](#)
LinkedIn:// [chase-xu](#)

EXPERIENCE

UNIVERSITY OF VICTORIA | NET ZERO NAVIGATOR CO-OP

Jan 2020 – May 2020 | Victoria, BC

- Linux environment development using python, Pandas, SQL, geomeppy, and EngergyPlus.
- 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

- 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.