





Roy Zhong

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 Vancouver, Canada

ABOUT ME

- 4th-year computer science student in UBC with experience working across a full stack of software development
- Experienced in team projects with small and large group, ranging from 3 to 7
- Excellent problem-solving abilities with a passion to overcome challenges
- Team player with strong communication skills and multi-tasks ability
- Performed testing to verify software solutions
- Fluent in English, Mandarin, and Cantonese

EDUCATION

University of British Columbia

July 2019 – Dec 2022

Bachelor of Science in Computer Science

- Cumulative Average: 83.2%

British Columbia Institute of Technology

Jan 2019 – May 2019

Computer Systems Technology (Full Time)

- Over 30 credits in a term
- Cumulative Average: 86%

SKILLS

Programming Language:

Java | C#/.Net Core | Python | HTML/CSS | JavaScript/TypeScript | SQL | PHP | R

Database:

MySQL | MongoDB

Development Tools:

Visual Studio Code | Microsoft Visual Studio | IntelliJ | Anaconda | Git | Postman

PROJECTS

Resume Generator

Jan 2022 - Apr 2022

Software Engineering Project

Vancouver, UBC

- Collaborated with a group consisting of 7 people and separated into the frontend, backend, and database teams to construct the application.
- Work as waterfall development to breakdown project activities into a linear sequential phases.
- Construct RESTful endpoints with C# and .NetCore to support CRUD operations to Database.
- Construct SQL query to communicated with MySQL database.
- Develop and perform endpoint functional testing plan and end-to-end integration test with Xunit.
- Provide quality assurance to determine whether the application meets specified requirements and detect bugs before final submission.

Movie Theatre Management System

Jan 2021 - Mar 2021

Introduction to Relational Databases

Vancouver, UBC

- Collaborated with a group consisting of 3 people and separated project requirements by feature to create a warehouse management system.
- Work as a full-stack developer to design and implement the frontend and backend of this app.
- Design database and Draw ERD to meet our project requirements.
- Write relational schema and optimize it to BCNF to achieve the best spatial efficiency and avoid conflict in the database.
- Write the Database Definition Language (DDL) to build the database.
- Build frontend with HTML, and CSS, and use it to simulate the business operation.
- Build backend with PHP handler and fill up queries for response request.

DOGE-COMMERCE

May 2022 - Aug 2022

Applied Industry Practices

Vancouver, UBC

- Build a React application to support an e-commerce platform that can handle buyer, seller, and guest roles.
- Used React-Router to turn the application into Single Page Application.
- Designed the Login, registration, profile, and live chat frontend page with React and MUI to achieve a flexible control and better look.
- Designed and Made HTTP requests to the backend that retrieve user data from MongoDB.
- Used Middleware in application to authorize user with JWT, check users permission in backend and perform password encryption.
- Used Google Identity in the application to quickly and easily manage user authentication and sign-in to the website.
- Used Socket.IO in application to enable real-time, bi-directional communication between buyer and seller supporting customer support feature.

PERSONAL RESEARCH PROJECTS

Machine Learning Project

July 2021 - Sep 2021

Remote

- Use a self-select model to perform an image recognition task on the dataset that contains 200 different categories of birds' fine-grained images.
- Preprocess images dataset with the random crop, normalization and data argumentation to improve performance and outcomes.
- Tune the hyper-parameter for VGG 16 to acquire a high testing accuracy result.
- <http://dx.doi.org/10.1117/12.2637648>