



ZHONGHAO (RICHARD) YANG

Major in Computer Science, 3rd Year

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Technical Skills

- **Programming Languages:** Java, JavaScript, TypeScript, Python, C#, C++, C, PHP, R, Bash
- **Frontend Development:** React, HTML, CSS, Bootstrap, Tailwind, Webpack, Babel
- **Backend Development:** Express, Node, MongoDB, Django, ASP.NET, Entity Framework Core, Xamarin.iOS, Oracle, MySQL
- **Tools:** Microsoft Azure, Amazon AWS, Docker, Git, Postman, IntelliJ IDEA, Visual Studio Code

Work History

Backend Developer Intern

May – Aug 2022

IBM

Markham, ON

- Working in the IBM Cognos Analytics team that provides enhanced Business Intelligence solutions
- Designing and coding servers, services, applications and databases that are reusable, scalable and meet critical architecture goals
- Creating and configuring IaaS, PaaS, and SaaS applications. Designing and implementing large scale systems and Service Oriented Architectures that enable continuous delivery.

Full-Stack Developer Intern

Jan – Apr 2022

CAE

Richmond, BC

- Using Agile engineering practices to rapidly develop creative and efficient solutions for a commercial aviation training management system that enhance the client experience
- Developing new features for both website and mobile app, and debugging the existing code
- Designing and implementing a frontend prototype using React and mocking the backend using Docker
- **Technologies:** C#, JavaScript, ASP.NET, Entity Framework Core, React, Xamarin.iOS, Docker, Azure

Undergraduate Teaching Assistant

Jan 2021 - present

UBC Department of Statistics

Vancouver, BC

- Taught 100-level Data Science courses that use data science tools to summarize, visualize, and analyze data. As well as 200-level Statistics courses that use computers to analyze classical, nonparametric, and robust inferences about means and variances
- Received perfect evaluation scores from 50+ students in the most recent semester in categories including teaching ability, preparedness, and communication
- Taught large groups of students and relayed student needs to professors

Extracurricular Activities

Full-Stack Developer Volunteer

Feb 2022 – present

Campus Nutrition

Vancouver, BC

- Designing and developing the frontend using React and Tailwind
- Transitioning the existing Django backend to a headless CMS system using Strapi
- **Technologies:** Python, JavaScript, React, Tailwind, Strapi, Django, GraphQL, MySQL

Technical Projects

Werewolf – Personal

Jan – Mar 2022

- Designed and developed a full-stack website using MERN stack for a board game with 6-12 players
- Implemented Firebase into the frontend for authentication and styled the frontend using Bootstrap
- **Technologies:** JavaScript, React, Express, Node, MongoDB, Bootstrap, Firebase, REST API

Insight UBC – Academic

Sep – Dec 2021

- Applying SOLID design principle and advanced design patterns to build a full-stack application that is able to extract and process information from zip files and response to queries with a query engine
- Integrated Google Map API to the frontend to render the shortest path between rooms in UBC
- Implemented Test Driven Development using Mocha and Chai, and used dynamic testing
- **Technologies:** TypeScript, JavaScript, HTML, CSS, Express, Node, Mocha, Chai, REST API

To-Do List – Academic

Oct – Nov 2021

- Applied advanced designing concepts including Observable pattern, Iterator pattern, polymorphism, and robustness to handle exceptions
- Developed a GUI using Swing to interact with the data stored in JSON file
- Implemented Test Driven Development using JUnit
- **Technologies:** Java, JUnit, Swing

Education

Bachelor of Science: Major in Computer Science

Sep 2020 – May 2024

University of British Columbia

Vancouver, BC

- Member of The Google Developer Student Club
- Received Trek Excellence Scholarship
- Received Faculty of Science International Student Scholarship
- GPA: 4.33/4.33 | Average: 91%

Computer Science: University Transfer Program

Sep 2019 - Aug 2020

Coquitlam College

Coquitlam, BC

- President of Computer Programming Club
- Dean's List 2019/2020
- GPA: 4.08/4.33