

Raymond Zhang

SOFTWARE ENGINEERING · UNIVERSITY OF WATERLOO

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Skills

Languages C++, C, Java, Python, JavaScript, HTML, CSS
Frameworks React, Node.js, Express, MongoDB, SQLite, MySQL, PostgreSQL, Django, REST API
Tools/Other Azure, Github, Git, Trello, Postman, MongoDB Compass, Office

Relevant Experience

Waterloo Experience (WE) Accelerate Program

Waterloo, Canada

MICROSOFT - AZURE & ARTIFICIAL INTELLIGENCE FUNDAMENTALS

May. 2021 - Aug. 2021

- Contributed to every step of the product development process from ideation to development.
- Engineered a solution aimed at helping employers become more inclusive through an AI job posting editor and chatbot digital consultant.
- Conceptualized project specifics targeting unnecessary job requirements and providing more inclusive vocabulary suggestions.
- Communicated and coordinated with project team members to successfully complete project as well as produce an initial prototype.

Thornhill Secondary School

Thornhill, Canada

WEBSITE DEVELOPER AND PRESIDENT OF COMPUTER SCIENCE CLUB

Sep. 2018 - May. 2020

- Worked with a team of students to develop the website tssoj.ca, powered by DMOJ.
- Maintained an educational platform used by hundreds of students and teachers.
- Created programming problems used for lessons and as practice for competitions.
- Arranged school-wide events including hackathons, programming competitions and promotions.
- Tutored students on Object-Oriented principles in Java and C++ and for programming competitions.

Projects

Daily Journey ↗

Python, Django, React, PostgreSQL

BUILT FOR HACK THE NORTH. FIND A CIRCULAR RUNNING ROUTE WITH GOOGLE MAPS API.

Sep. 2021 - Sep. 2021

- Built RESTful API for database queries and for interfacing with route finding algorithm.
- Implemented session authentication through login and register endpoints.
- Created services as specified by frontend development team following RESTful design principles.

Alpha-beaver ↗

MongoDB, Express.js, React, Node.js

A LEARNING MANAGEMENT SYSTEM BUILT WITH THE MERN STACK.

Jun. 2021 - Sep. 2021

- Created services for announcements and events encompassing creation, frontend design and calendar integration.
- Conceptualized and developed front-end library to ease backend integration.
- Collaborated with product team members and worked independently to build, test as well as integrate new features.

Twotter ↗

Python, Django

DESIGNED TO BE A FUNCTIONAL CLONE OF TWITTER, COMPLETE WITH USER PROFILES, TWEETS AND PRIVATE CHAT.

May. 2021 - Sep. 2021

- Designed and implemented RESTful API for SQLite database queries.
- Utilized websockets to notify clients of new messages and prevent polling.
- Provisioned an easy to manage production environment using Heroku with Redis and PostgreSQL.

ElectionForm ↗

JavaScript, Google Apps Script

A SCRIPT WHICH AUTOMATES FORM CREATION AND RESULT COLLECTION.

Oct. 2019 - Dec. 2019

- Automated the high school election process for major leadership positions.
- Designed a script to automatically create a questionnaire with Google Forms, store votes in Google Sheets, and calculate the results of the election using JavaScript and Google Apps Script.
- Performed integration testing to resolve issues leading to a successful election.
- Built to simplify the election process and eliminate human error.

Education

University of Waterloo

Waterloo, Ontario

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING

Sep. 2020 - Apr. 2025 (Projected)

- GPA: 4.0.
- Term Dean's Honour List.