

# Raymond Zhang

SOFTWARE ENGINEERING · UNIVERSITY OF WATERLOO

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## Skills

**Tools** Azure, Github, Trello, Postman, MongoDB Compass, Office

**Frameworks** React, Node.js, Express, MongoDB, SQLite, MySQL, Django, REST API

**Languages** C++, C, Java, Python, JavaScript, HTML, CSS

## Relevant Experience

### Waterloo Experience (WE) Accelerate Program

Waterloo, Canada

PROJECT TEAM MEMBER, MICROSOFT - AZURE & ARTIFICIAL INTELLIGENCE FUNDAMENTALS

May. 2021 - Aug. 2021

- Participated in 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 with a focus on technology, market analysis and design leading to smooth implementation.
- 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

### Alpha-beaver ↗

MongoDB, Express.js, React, Node.js

A LEARNING MANAGEMENT SYSTEM BUILT WITH THE MERN STACK.

Sep. 2020 - Dec. 2020

- Created Rest API endpoints for announcement and event creation.
- Conceptualized and developed front-end library to ease backend integration.
- Collaborated with product team members to build and test 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.

### Bump!

JavaScript, SQLite, Node.js

A PROMOTIONAL APPLICATION FOR THE DISCORD PLATFORM.

Jun. 2018 - Sep. 2019

- Designed a promotional application to help grow servers built on the Discord platform.
- Grew application to be utilized by over 100k users.
- Stored user and server data with SQLite and JSON.

## 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.