

Ziheng Zhou

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Skills:

Languages: Java, Python, Racket, JavaScript, HTML, CSS, Coq, C (ongoing).

Tools/ Libraries: Git, React, Maven, Pygame, Object-Oriented Programming, CSV Databases.

Experiences:

VHA HOME HEALTHCARE

Volunteer Web Developer

Toronto, Ontario (Remote)

January 2021 – June 2021

- Developed a **React** based web applet that displays the normalized torque a person's bicep exerts given a certain angle formed between the forearm and the upper arm.
- Utilized various React component libraries to implement features such as an interactive graph and sliders.
- Implemented an interactive diagram using inline **CSS** styles to sync the rotation of the forearm to the angle set by the user.

Glen Eden

Snow School Volunteer

Milton, Ontario

December 2017 – March 2020

- Helped Ski Instructors during lessons with organizing students.
- Learned valuable leadership and communication skills.

Projects:

MULTI-PURPOSE DISCORD BOT | Java

- Developed an interactive discord bot that reacts to messages and stores personalized data for individual users by using the **JDA** library.
- Extensive use of **Object-Oriented Programming** for data and method **encapsulation**.
- Retrieves definition from the web using a dictionary **API**.
- stores user data in a **CSV database**.

PAINT | Python

- Used Pygame to create a paint program that mimics MS paint.
- Includes various features such as pencil, rectangle, circle, flood fill, etc.

Education:

UNIVERSITY OF WATERLOO

Bachelor of Computer Science (Hons.)

September 2021 – May 2026

- Current Academic level: 1B
- Cumulative GPA: **3.98**
- Relevant Course: Designing Functional Programs, Algebra (Advanced Level), Calculus