

Tony Zhou

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Technical Skills:

- **Languages:** Java, Python, JavaScript, HTML, CSS, C, SQL, Racket, Coq, PostgreSQL
- **Libraries/ Frameworks:** React.js, Django, Django REST Framework, React Test Library
- **Tools:** Heroku, Linux, Git, Maven

Relevant Experiences:

Volunteer Web Developer

VHA Home HealthCare

Remote

January 2021 – June 2021

- Fully developed a **React** web app designed to demonstrate fundamental physiology concepts clearly to occupational therapy students to improve learning
- Utilized libraries including **Recharts** and **RC-Slider**, together with **CSS** to build a reliable and aesthetically pleasing website that far surpasses the client's expectations
- Learned valuable **leadership** skills by being the main **architect** of the team
- Currently used by **100+** students so far during lectures

Projects:

Multi-Purpose Discord Bot | Java

- Developed an interactive discord bot using the **Java JDA** library with a multitude of features
- Collects and stores personalized data for users on a remote **PostgreSQL** database
- Extensive use of **Object-Oriented Programming** for data and method encapsulation
- Used **git** for version control and **Maven** for build automation

User Data API | Django, React.js

- Developed a **backend** to access and update a **PostgreSQL** database using **Django** for the discord bot above
- Built multiple **RESTful APIs** with authentication to facilitate fast and secure data access and transfer
- Used **React** to create an interactive **frontend** which allow users to view the bot data in a user-friendly format
- Fully hosted remotely on **Heroku** to ensure 24/7 uptime

Paint Clone | Python

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

Other Experiences:

Snow School Volunteer

Glen Eden

Milton, Ontario

December 2017 – March 2020

- Assisted Ski Instructors during lessons with organizing students and explaining skiing concepts
- Gained great communication skills by needing to convey lesson objectives and results clearly to students

Achievements & Awards:

Governor General's Award for Academic Excellence

June 2021

- Awarded to the student who achieves the highest average upon graduation from a secondary school.

Education:

UNIVERSITY OF WATERLOO

Candidate for Bachelor of Computer Science (Hons.)

September 2021 – May 2026