

# Alex Zhou

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## EDUCATION

### University of Waterloo

*Bachelor of Software Engineering*

Waterloo, ON

Sep. 2025 – Present

## EXPERIENCE

### YRHacks Team Member

*Dr. Bette Stephenson Centre*

Feb. 2025 – Apr. 2025

*Richmond Hill, ON*

- Developed an NFC Card Reader to repurpose the high-school ID card
- Designed backend database using MySQL to store student data
- Collaborated with team members to maintain an efficient workflow

### Artificial Intelligence Club Executive

*Middlefield Collegiate Institute*

Sept. 2024 – June 2025

*Markham, ON*

- Taught and coordinated students about artificial intelligence and cybersecurity
- Prepared simple yet engaging activities to explore the different applications of AI
- Promoted the club and presented live demos, increasing membership by 25%
- Organized an Hour of Code for students to generate computer vision models

### Retail Sales Associate

*Fresh Beverages*

July 2021 – July 2025

*Etobicoke, ON*

- Assisted 75+ customers daily
- Performed quick mental math to calculate change and ensure transaction accuracy
- Built strong customer relationships to improve customer loyalty and retention
- Checked cash for authenticity and handled it accordingly
- Maintained composure during high-pressure and stressful situations

## PROJECTS

### Remote Web Server | Oracle Cloud, Linux

Aug. 2022 – Present

- Hosting an Oracle Cloud Compute instance to test programs and to store information
- Using Linux to create headless and persistent terminals to host a Discord Bot
- Configuring ports to allow multiple video game servers to run simultaneously
- Performing monthly maintenance by accessing the shell and checking persistent terminals

### Discord Server Bot | Java, JDA, JsCh, Lavaplayer, Maven, Selenium, Yahoo Finance

Apr. 2024 – Present

- Developing a multi-functional Discord Bot to automate and provide real-time utilities.
- Implemented a SSH connection with Oracle Cloud services to remotely manage and host itself
- Created functionality for finance, citation scraping, and Grok AI interaction.
- Added a YouTube music player to bypass advertisements online

### Java Live Image Recognition | Google API, Java, Maven, TensorFlow

Mar. 2025 – May 2025

- Developed an application to migrate Google Teachable Machine into a Java application
- Implemented a graphical based approach to upload custom models with a console
- Integrated with Google Snake Game to allow gesture-based input
- Introduced students to see how computer vision is defining innovation

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, MySQL, JavaScript, HTML/CSS

**Developer Tools:** Git, Linux, Oracle Cloud, IntelliJ, CLion, PyCharm, Eclipse

**Libraries:** Maven, Google API, Java Discord API, JSch