

Alex Zhou

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EDUCATION

University of Waterloo <i>Bachelor of Software Engineering</i>	Waterloo, ON Sep. 2025 – Present
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EXPERIENCE

YRHacks Team Member <i>Dr. Bette Stephenson Centre</i>	Feb. 2025 – Apr. 2025 Richmond Hill, ON
Artificial Intelligence Club Executive <i>Middlefield Collegiate Institute</i>	Sept. 2024 – June 2025 Markham, ON
Retail Sales Associate <i>Fresh Beverages</i>	July 2021 – July 2025 Etobicoke, ON

YRHacks Team Member
Dr. Bette Stephenson Centre

- 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

- 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

- 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
Discord Server Bot Java, JDA, Jsch, Lavaplayer, Maven, Selenium, Yahoo Finance	Apr. 2024 – Present
Java Live Image Recognition Google API, Java, Maven, TensorFlow	Mar. 2025 – May 2025

Remote Web Server | Oracle Cloud, Linux

- 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

- 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

- 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