

Wajeeh Alam

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75 Cultra Square, Toronto, Ontario

Wajeeh

Skills

Languages: Python, HTML, CSS, JavaScript, C#, Java (FRC)

Frameworks/Libraries: NumPy, MongoDB, OpenCV, Mediapipe, Discord.Py, Node.JS / React.JS, Java

Software: GitHub/Git, Visual Studio Code, Pycharm, Eclipse, XCode, Unity

Experience/Projects

Hand Sign Gesture Recognizer



- Developed a **real-time** sign language interpreter able to **detect** ASL sign language gestures
- Facilitated creation of **gesture recognizer**, training data and program
- Used **OpenCV** and **MediaPipe** w/ Python 3

Fridge2Table

1. 2.

- Designed a **website** able to find and create recipes from only available household items
- Used **HTML**, **CSS**, **Javascript** and **Spoonacular API**

Todoist



- Developed a **full-stack** interactive **to-do list** website able to manage and create tasks
- Used **React.js**, **HTML/CSS** for the frontend, **Node.js**, **Express.js** for backend, and **Mongoose** w/ **MongoDB** for data storage/retention

Education

Sir Wilfrid Laurier C.I., International Baccalaureate Program

Sept. 2022 - June 2026

- Ontario Secondary School Diploma | International Baccalaureate Diploma

Extracurricular

Computer Science Club, Python Mentor

October 2022 - Present

- Taught over **15** people **Python** for over **30 hours** throughout the school year through biweekly meetings
- Conceptualized** and **taught** a computer science course for practical **programming**

Engineering Club, Mechatronics Mentor

Nov. 2023 - Present

- Taught **mechanical** and **programming** principles to apply to real world scenarios revolving around hand-based project building
- Led** and directed the creation of Single Purpose Machines with school materials

FRC Robotics

Sept. 2023 - Present

- Assisted in the **programming**, **electrical** and **mechanical** team for the FRC Robot
- Used electrical machinery to create and **prototype** parts for testing as well as learned the **Java FRC** library