

# James Li

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## Qualifications

- **Languages and Frameworks:** C++, Python, SQL, HTML, CSS, JavaScript, React.js, Node.js
- **Software:** Git, Excel, MS Office, AutoCAD, SolidWorks, Jira, Confluence, Figma

## Projects

### Weather App (React.js, CSS, API)

*Oct 2022 - Nov 2022*

- Designed and coded a weather app in **React.js** to provide the weather for over **500** cities in real time.
- Implemented **2 RESTful APIs** to fetch data for city names and the weather of the cities.
- Created an autofill search bar, providing suggestions for cities with a population size over 1million.
- Used OpenWeatherAPI to retrieve **8+** pieces of data over **7** days to display a weekly weather forecast.
- The app was designed as an easy way to retrieve and display the weather of large cities.

### Personal Portfolio Website (HTML, CSS, JavaScript)

*Oct 2022*

- Designed and deployed a personal portfolio website using **HTML, CSS, and JavaScript**.
- Implemented **mobile responsiveness** to gain experience with HTML and to improve user experience using **2** sets of font sizes and picture resolutions scaling with window size.
- Gained experience with **diagnosing** and **troubleshooting** code in **VSCode** and using **GitHub**.
- Made to display my portfolio in a convenient, and attractive method that can be easily accessed.

### Tic-Tac-Toe Robot (C++)

*Dec 2021*

- Designed a robot that can play tic-tac-toe using **4** different sensors and taking user inputs from **2** players.
- Used **iterative algorithms** and line-tracking functions to optimize robot performance efficiency by **25%**.
- Worked independently to **test** and **debug code** to ensure robot was fully functional and intuitive to use.

## Work Experience

### Computer Support Assistant - University of Waterloo

*May 2022 – Aug 2022*

- Assisted in the **development** and **installation** of the deployment software for the computers used in the ECE department which includes installing Windows and Linux operating systems.
- Received, delivered, and installed various technologies purchased by professors and graduate students.
- **Programmed** and **implemented batch files** on Windows to **troubleshoot** and solve various issues and errors encountered during deployment and to automate installation of certain programs.
- Frequently used **multitasking skills** to work on up to **8** computers at once to maximize efficiency.
- Proficiently used power tools to install or remove any computer related hardware or electronics.

### Personal Tutor - Teenage Tutors

*Nov 2019 – Sept 2020*

- Tutored and developed connections with 4 children in a year period to help strengthen their understanding of Math and French.
- Taught one-on-one sessions 2 to 4 times per week in-person and online which allowed me to strengthen my ability to communicate and share my knowledge verbally and through video conferencing software.

## Education

### University of Waterloo, ON, CA, Pursuing BSc in Mechatronics Engineering

- University of Waterloo President's Scholarship
- Earned Highschool Core French Bilingual Certificate

## Interests

- My interests include playing volleyball and basketball, working out at the gym, and cooking.