

James Li

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EXPERIENCE

Founder

May 2024 - present

Neo Developer League

Waterloo, ON

- **Co-founder** of a non-profit organization that inspire students through interscholastic programming events, enhancing coding ability and fostering collaboration.
- **Built** the landing and dashboard of the website using a technology stack that includes Typescript, React, Supabase, and Google OAuth.
- **Hosted** 10 schools and 100+ participants on October 26, 2024 for the *WRDSB Dev Summit*.

Software Development Intern

Aug 2024 - Sep 2024

Lakes Environmental Software

Waterloo, ON

- **Developed** a versatile, multi-language data processing and visualization tool using Streamlit, C#, and MSSQL.
- **Implemented** a .NET Core C# program to efficiently parse log files and send data to an MSSQL database.
- **Achieved** peak performance of over 1 million bytes per second through the implementation of a parallelized batch insert technique.
- **Utilized** Plotly.io's charting features to visualize over 1.5 million lines of log file data on a centralized Streamlit dashboard through query execution.

Junior Software Developer

Jul 2024 - Aug 2024

Tauria

Waterloo, ON

- **Enhanced** various aspects of the Tauria video conferencing app built with React.js.
- **Revitalized** critical features by adding logic to components and improving app efficiency, enabling seamless navigation between pages.
- **Created** a desktop version of app using the Tauri framework, leveraging the power of Rust and Typescript simultaneously.
- **Developed** automated end-to-end testing using Playwright, automating over 100 test cases.

PROJECTS

EuroNodes | *Processing Java, External APIs*

Jan 2025

- **Integrated** Dijkstra's Algorithm into the European map, placing nodes and edges on countries.
- **Calculated** the shortest routes between countries with a streamlined interface that calls APIs to enhance user experience.

IdentiBear | *Python, Flask, Streamlit, Keras*

Aug 2024

- **Developed** a webcam tool to assist individuals with dementia at the *Hack the 6ix* hackathon.
- **Integrated** the webcam tool with Streamlit and Flask for seamless functionality.
- **Trained** the model to recognize five individuals, including their facial features and respective background information, during the hackathon.

WeatherMap | *React, MongoDB, Node.js, Express.js, React Leaflet*

Apr 2024

- **Developed** a project that takes user inputs and displays the weather information along with pinpoint locations on an interactive world map.
- **Iterated** from a vanilla JS front-end and Express.js back-end to incorporate Typescript, MongoDB, and React, fully utilizing the capabilities of MERN stack.

TECHNICAL SKILLS

Languages: Javascript, Typescript, Html/CSS, C Sharp, Python, Processing

Frameworks: React, Node.js, Express.js, Vue.js, .NET Core, Streamlit, Tauri

Tools: Docker, Supabase, MSSQL, PostgreSQL, MongoDB, Playwright

EDUCATION

Laurel Heights Secondary School

Sep 2021 - Jun 2025

OSSD

Waterloo, ON