

James Li

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EXPERIENCE

Founder

May. 2024 - present

Neo Developer League

Waterloo, ON

- Co-founder and lead of a non-profit organization that aims to inspire through interscholastic programming events.
- Developed the Neo Developer League website and dashboard using a technology stack that includes Typescript, React, and Supabase; integrated Google OAuth for authentication.
- Successfully hosted 10 schools and 90+ 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.
- Used 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.
- Operated queries to retrieve inserted data; visualized on a streamlined Streamlit dashboard.
- Utilized Plotly.io's charting features to visualize over 1.5 million lines of log file data in a centralized interface.

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 direct navigation between pages.
- Built a desktop version of app with the Tauri framework, leveraging the possibilities of Rust and Typescript simultaneously.
- Developed efficient, automated end-to-end testing using Playwright, automating over 100 test cases.

PROJECTS

WeatherMap | *React, MongoDB, Node.js, Express.js, External libraries*

Dec. 2023 - Apr. 2024

- Personal project that take inputs and shows the weather and the pinpoint location on an interactive world map.
- First iteration featured a vanillaJS front-end and Express.js back-end. Enhanced the application by incorporating TypeScript, MongoDB, and React, fully utilizing the capabilities of the MERN stack over time.

Moodify | *React, MongoDB, Node.js, Express.js, External APIs*

May 2024

- Full-stack web application that uses external Machine Learning models to determine the user's mood from webcam.
- Created a visual appealing user interface with React and libraries such as Magic UI and Bootstrap.
- Implemented a Node.js, Express back-end to store playlists in a MongoDB collection.
- Leveraged the functionalities of the Spotify API to generate playlists.

IdentiBear | *Python, Flask, Streamlit, Keras*

Aug. 2024

- Developed a webcam tool to address the grim challenges of dementia.
- Utilized the powerful combination of Streamlit and Flask, seamlessly integrated with the webcam.
- Leveraged Streamlit to enhance user experience by streamlining data input and visualization.

TECHNICAL SKILLS

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

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

Developer Tools: Git, Docker, Supabase, MSSQL, MongoDB, Playwright

EDUCATION

Laurel Heights Secondary School

Sep. 2021 - Jun. 2025

OSSD

Waterloo, ON