

# Kevin Wei

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## EDUCATION

### University of Waterloo

MAJOR IN COMPUTER ENGINEERING, HONOURS, CO-OP PROGRAM

Named to Dean's Honour List in 1A term

Waterloo, ON | 2022 - Expected 2027

## SKILLS

**Languages:** Java, Python, JavaScript, TypeScript, HTML, CSS/SCSS, C/C++

**Technologies:** Vue.js, React.js, Spring Boot, Nuxt.js, Node.js, Flask, Selenium, Beautiful Soup, Bootstrap, Maven, Git  
Pandas, jQuery, Kivy, Cypress, Docker

**Database:** MongoDB, PyMongo, SQL, H2 Database Engine, Hibernate, HQL

## WORK EXPERIENCES

### CHARTD

| FULL STACK DEVELOPER

Remote Work | Sept 2023 - Dec 2023

- Worked on a **Business-Intelligence** platform used in handling and evaluating proprietary financial data built upon **Machine Learning**.
- Implemented data ETL process connecting user imported files to **MongoDB**, through async endpoints in **FastAPI**.
- Developed efficient computing techniques in **Python** to process **10000+** data points in **< 3** seconds on average.
- Designed a Data Manager page with **TypeScript** and **Vue.js** to process ETL in **4** clicks for users.
- Built and tested frontend with backend script and database with **Docker** containers.

| WEB APPLICATION DEVELOPER

Remote Work | Jan 2023 - Apr 2023

- Developed a financial data management tool using **Vue.js** for Canadian Defence Industry contracts.
- Abstracted financial data from **JSON** to **TypeScript** objects for display in Tables, Graphs, and Charts.
- Implemented **CRUD** operation components used in **50+** instances throughout the app, complete with Unit Testing and End-to-End Testing with **Cypress**.
- Assisted in using **Nuxt.js** to construct an intuitive and accessible navigation system with **20+** distinct pages.

## PROJECTS

### EXPENSE TRACKER

PYTHON, REACT.JS, FLASK, JAVASCRIPT, PANDAS, GOOGLE SHEETS API

- A Full Stack web application designed to make tracking expenses easy and compatible with Google spreadsheets.
- Developed using **React.js** frontend and **Python** backend.
- Connects to Google Sheets API through **Flask** endpoints, using **Pandas** to format POST and GET data.
- Organizes personal expenses for phone screens with pages designed using **mobile-first** approach.

### SIMPLE SHOP

JAVA, H2, JSP, SPRING BOOT, SPRING MVC, HIBERNATE

- An e-commerce website developed with **Java**, **JSP**, and **Spring Boot**.
- Applied the MVC architectural pattern with **Spring MVC** for ease of organization and development.
- Configured database with **H2 Database Engine** to store encrypted user and item information.
- Designed filter to categorize and paginate items with **HQL queries**.

### MATCH CONNECT WEBSITE

JAVASCRIPT, BOOTSTRAP, HTML/CSS, SCSS

- Designed an interactive website with responsive and intuitive UI using **JavaScript** and **Bootstrap** for my non-profit: Math Connect.
- Registered a custom domain (**mathconnect.ca**) visited regularly by 100+ members.
- Connected website to password-protected **Google Drive** for distributing resources.