

# 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 2023 (3.9 GPA)

Waterloo, ON | 2022 - Expected 2027

## SKILLS

Languages: Java, Python, JavaScript, TypeScript, C/C++, SQL, MATLAB, ARM Assembly

Technologies: React.js, Node.js, Vue.js, Nuxt.js, jQuery, Flask, FastAPI, Pandas, PyMongo, Beautiful Soup, Spring Boot, Hibernate

Databases: MongoDB, MySQL, H2 Database

Developer Tools: Google Cloud Platform, Docker, Cypress, Selenium, Maven

## WORK EXPERIENCES

### FULL STACK DEVELOPER | CHARTD

Remote Work | Sept 2023 - Dec 2023

- Worked on a **Business-Intelligence** platform built atop Machine Learning language models, which evaluates financial data to provide statistics and insights.
- Implemented data **ETL** pipeline with **Python** through async **FastAPI** endpoints, processing **10,000+** data points from user imported files to **MongoDB** with **less than 3** seconds of latency.
- Designed a Data Management page with **TypeScript** and **Vue.js**, letting users customize ETL processes and enforce data governance settings.
- Developed both frontend and backend in a fully **Dockerized** environment with multiple containers.

### WEB APPLICATION DEVELOPER | CHARTD

Remote Work | Jan 2023 - Apr 2023

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

## PROJECTS

### EXPENSE TRACKER

PYTHON, REACT.JS, FLASK, JAVASCRIPT, PANDAS, GOOGLE CLOUD PLATFORM

- A Full Stack web application designed for mobile to make tracking expenses easy with Google Sheets.
- Developed with **React.js**, **Python** and **Google Cloud Platform** to sync and display thousands of transaction records.
- Created a RESTful **Flask** API and used **Pandas** to format data passed through **Axios** POST/GET requests.
- Integrated Google Login with **OAuth 2.0** authentication to access Google Sheets API with tokens and credentials.

### MATH 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**) regularly used by **100+ users**.
- Connected website to password-protected **Google Drive** for distributing resources.

### SIMPLE SHOP

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

- 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**.