Kevin Wei

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EDUCATION

University of Waterloo   Waterloo, ON | 2022 - Expected 2027
MAJOR IN COMPUTER ENGINEERING, HONOURS, CO-OP PROGRAM
Named to Dean's Honour List in 2023 (3.9 GPA)
Coursework: Data Structures and Algorithms, Object-Oriented Programming

SKILLS

Languages: Java, Python, JavaScript, TypeScript, C/C++, SQL

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 EXPERIENCE

FULL STACK DEVELOPER | CHARTD   Ottawa, ON (Remote) | 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 on business performance.
- Implemented a data **ETL** pipeline with **Python** through async **FastAPI** endpoints, processing **10,000+** data points from user uploaded files to **MongoDB** with **less than 3** seconds of latency.
- Designed a Data Management page with **TypeScript** and **Vue.js**, letting users customize data transformation.
- Enforced data governance by creating robust **Pydantic** models that the language models infer to generate response.
- Developed both frontend and backend in a fully **Dockerized** environment with multiple containers.

WEB APPLICATION DEVELOPER | CHARTD   Ottawa, ON (Remote) | Jan 2023 - Apr 2023
- Developed a financial data management tool using **Vue.js** for multi-million dollar Canadian Defence 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
- Developed a mobile-friendly expense tracking web app with **React.js** and **Python**, along with integration of **Google Cloud Platform** and Google Sheets.
- Utilised **Pandas** to format and aggregate thousands of transaction data points, and employed **Axios** to transmit this data via POST/GET requests to the app's backend API service.
- Designed a RESTful **Flask** API that performs stateless authentication by exchanging **JSON Web Tokens** (JWT) containing HS256 encrypted user access tokens.
- Integrated Google Login with **OAuth 2.0** authentication to access Google Sheets API by verifying tokens and credentials with Google Authorization Servers.

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.
- Registered a custom domain **(mathconnect.ca)** regularly used by **100+ users**.
- Connected website to password-protected **Google Drive** for information distribution.

SIMPLE SHOP ↗   JAVA, H2, JSP, SPRING BOOT, SPRING MVC, HIBERNATE, MAVEN
- An e-commerce website developed with **Java, JSP, and Spring Boot** for buying and selling second-hand items.
- Configured a database with **H2 Database Engine** to store user info and items, which are accessed with **HQL** queries.
- Applied the MVC architectural pattern with **Spring MVC** for ease of organization and development.