Jackie Li

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☰ Skills Summary

Languages   JavaScript/TypeScript | Golang | Python | Java | SQL | HTML/CSS | C | C++ | Bash
Technologies   Docker | Git | Google Cloud | MongoDB | PostgreSQL | Firebase | React.js | Firebase | Next.js | Node.js | Unix cmds

🎓 Education

Computer Engineering BEng – Toronto Metropolitan University | CGPA : 3.67   SEPTEMBER 2021 – MAY 2026

💼 Experience

Toronto Metropolitan University — Web Developer   MAY 2023 – OCTOBER 2023

- Spearheaded the development of a full-stack application for operation staff in the athletics department. The platform serves as a centralized repository for metric management tools and internal documents.
- Reduced 3rd party API calls by over **80%** by designing and implementing a data cache (lazy loading).
- Implemented **Google OAuth authentication**, streamlining the sign-in process for staff members using TMU email accounts.
- Utilized **server-side rendering** to reduce client-side processing, **optimizing** the performance for users on slower devices, ensuring accessibility to the application.

TypeScript   Next.js   React.js   Node.js   Tailwind CSS   Firebase   OAuth   Google Cloud Platform

Toronto Metropolitan Robotics — Software Developer   SEPTEMBER 2022 – CURRENT

- Developed a base station controller for the **University Rover Challenge (URC) 2023.** Leveraged web-socket technology to reduce process latency, improving response times by **90%** compared to the previous HTTP counterpart.
- Communicated and collaborated with project managers and designers in effort to translate requirements into software solutions.
- Designed and developed an application for efficient retrieval of large spreadsheets rock sample data, using the **binary search algorithm** to ensure quick and efficient results for users.

TypeScript   JavaScript   Python   C++   React.js   Web Sockets

🖥 Projects

Streamify - Youtube Watch Party Platform ⤴

- Created a web application that allows users to chat and watch YouTube videos with friends.
- Integrated the **YouTube API** as self-contained **video search feature**, enhancing content discovery and selection directly within the application.
- Utilized the **OpenAI API** to implemented **gpt-3.5-turbo** to provide **personalized video recommendations** based on users' viewing history, elevating their viewing experience with custom video suggestions.
- Employed **Redis** for efficient storage and management of real-time data related to active watch party rooms.

TypeScript   Next.js   Express.js   Google Cloud   Web Sockets   Redis   OpenAI   Docker

SpotiFamily - Family Plan Manager % Website

- Developed a web application to address payment tracking and accountability issues within my Spotify Family account.
- Employed **Spotify OAuth** to enable users to log in with their Spotify accounts, streamlining account management.
- Implemented a custom payment reminder system, utilizing **Cloud Functions** and **CRON Schedulers**, increasing on time payments by **60%**.
- Utilized **Firebase** to store and manage individual user profiles. Enabled users to access and view both their own data and that of others.

TypeScript   React.js   Node.js   Firebase Firestore   Spotify API   OAuth 2.0

Covidify - Covid-19 Data Receipts % Website

- Created a front-end application to visualize COVID-19 data in the form of receipts using the **OpenCovid API**.
- Implemented **URL-based state management**, enabling seamless receipt sharing among users and ensuring consistent data presentation.
- Utilized Tailwind CSS to create a **responsive user interface** (UI) for desktop and mobile devices.

JavaScript   React.js   HTTP   Tailwind CSS