OWEN WANG

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EDUCATION

University of Waterloo Waterloo, ON
Bachelor of Computer Science Honours, Co-op *Expected May 2028*

SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, SQL, HTML, CSS, Sass
Libraries and Frameworks: Django, Django REST framework, React, Tailwind CSS, Bootstrap
Development Tools: Git, Linux/UNIX, PostgreSQL, SQLite, RabbitMQ, Docker, AWS

PROJECTS

<u>Brook</u> | *Python, Django, Django REST framework, React, TypeScript, Tailwind CSS, PostgreSQL, RabbitMQ, Amazon S3*
- Developed a **full-stack SPA** allowing music downloads and playlist management for YouTube and Spotify
- Designed a interactive and dynamic UI with React and Tailwind CSS, utilizing **client-side rendering** (CSR)
- Built a back-end to handle **session-based user authentication** with Django, and a **RESTful API** for seamless front-end communication and **CRUD** operations with the Django REST framework
- Designed and implemented a **normalized relational database** with Postgres and the Django ORM
- Utilized RabbitMQ to offload downloads to a background **worker**
- Leveraged **Amazon S3** to handle file storage of downloaded songs and playlists
- Integrated YouTube and Spotify **OAuth** to make changes to user playlists
- Integrated YouTube Data and Spotify Web **APIs** to manage music info and detect changes in user playlists
- Deployed frontend to Netlify and backend to Heroku while managing dependencies and configuring CORS and cookies, enabling secure cross-domain communication for API requests and responses

<u>JBKR Mobile</u> | *Java*
- Developed a Java desktop application simulating a stock trading application, enabling users to create and manage stock profiles with real-time data from the NYSE and Nasdaq
- Led a **team of three**, facilitating role assignments and conducting **pair programming** sessions
- Integrated real-time stock market data from the YahooFinance **API**

<u>Multithreaded Local Superchat</u> | *C*
- Developed a chat app that connects over a users local network using **TCP sockets**
- Implemented **multithreading** to manage **concurrent** message handling
- Optimized dynamic memory allocation to support an expanding user base

<u>Internsheet</u> | *React, TypeScript, Tailwind CSS, Supabase*
- Developed a dynamic responsive **single-page application** to track job applications
- Leveraged Supabase's realtime Postgres changes to update spreadsheet

<u>wangowen.com</u> | *React, TypeScript, Tailwind CSS*
- Developed a responsive portfolio **single-page application**
- Deployed from GitHub to Netlify while adhering to responsive design principles to allow for a seamless experience for both **mobile** and **desktop** users

LEADERSHIP

CU Esports Officer Sept 2023 – Present
Carleton University *Ottawa, ON*
- Fostered a community of **3200+ members** by organizing weekly online gaming events at Carleton University, providing a platform for competitive and social engagement
- Collaborated with admins to ensure smooth execution and student satisfaction during events

Coding Club Homework Assistant Sept 2022 – June 2023
A.Y. Jackson S.S. *Toronto, ON*
- Guided a club of **300+ students** through identifying and **debugging** coding errors while conducting **code reviews**
- Mentored individual students through computer science coursework, offering insights on proper coding practices