

OWEN WANG

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EDUCATION

Carleton University

Bachelor of Computer Science Honours (Co-op) — GPA: 3.99/4.0

Ottawa, ON

Expected May 2028

SKILLS

Languages: Python, Java, JavaScript, TypeScript, HTML, CSS, Sass, C, SQL

Libraries and Frameworks: Django, Django REST framework, React, Tailwind CSS, Bootstrap

Development Tools: Git, PostgreSQL, SQLite, Linux/UNIX

PROJECTS

Brook | Python, Django, Django REST framework, React, TypeScript, Tailwind CSS, PostgreSQL, Heroku

- Developed a **full-stack SPA** allowing music downloads and playlist management for YouTube and Spotify
- Designed a interactive and dynamic UI using **CSR** with React and Tailwind CSS
- Built a back-end to handle **session-based user authentication** with Django, and a **RESTful API** to communicate with the front-end and allow **CRUD** operations to be performed using the Django REST framework
- Implemented a **normalized relational database** with PostgreSQL and the Django ORM
- Utilized YouTube Data and Spotify Web **APIs** to obtain music information and to detect changes in a user's playlist
- Optimized and refactored codebase for a more scalable and maintainable architecture

wangowen.com | React, TypeScript, Netlify

- Developed a responsive **single-page application** to showcase portfolio
- Deployed from GitHub to Netlify, adhering to responsive design principles to allow for a seamless experience for both **mobile** and **desktop** users

The Wildfire Network | Python, Django, HTML, CSS, Sass, Bootstrap

- Developed a **full-stack web app** providing latest news and data on Canadian wildfires with a custom made wildfire prediction algorithm during Ignition Hacks 2023
- Guided and mentored a **team of three** throughout the event and conducted comprehensive **code reviews** to ensure project coordination and collaboration
- Designed an algorithm using data obtained from **WeatherAPI** to measure wildfire risk in a given area

Multithreaded Chat App | C

- Developed a chat app that connects over a users local network using sockets
- Implemented **threading** to **concurrently** handle message handling
- Optimized dynamic memory allocation to support an expanding user base

JBKR Mobile | Java

- Developed a Java desktop application that simulates a stock trading application, allowing users to create and manage stock profiles with access to real-time data from the NYSE and Nasdaq
- Led a **team of three**, facilitating individual role assignments while facilitating **pair programming** sessions
- Obtained real-time stock market data from the YahooFinance **API**

EXTRA-CURRICULARS

CU Esports Officer

Carleton University

Sept 2023 – Present

Ottawa, ON

- Fostered a community of **3200+ members** by organizing weekly online gaming events at Carleton University, providing a platform for students to engage in competitive and social experiences
- Worked closely with admins while hosting weekly tournaments to ensure event success

Coding Club Homework Assistant

A.Y. Jackson S.S.

Sept 2022 – June 2023

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, providing insight on proper coding practices