

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, Celery, Boto3

Development Tools: Git, Linux/UNIX, PostgreSQL, SQLite, RabbitMQ, Docker, Amazon S3

PROJECTS

Brook | 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 using the Django REST framework
- Designed and implemented a **normalized relational database** with PostgreSQL and the Django ORM
- Utilized RabbitMQ with the Celery library to offload downloads to a background **worker**
- Optimized file storage by utilizing Amazon S3 through the Boto3 library
- 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 to enable secure cross-domain communication for API requests and responses

wangowen.com | 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

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

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

JBKR Mobile | 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**

Multithreaded Chat App | 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

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 competitive and social engagement
- Collaborated with admins to ensure smooth execution and student satisfaction during events

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, offering insights on proper coding practices