OWEN WANG

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EDUCATION

Carleton University   Ottawa, ON
Bachelor of Computer Science Honours (Co-op)   *Expected May 2027*
- **Stream**: Software Engineering
- **CGPA**: 12.0/12.0

SKILLS

Languages: Python, Java, JavaScript, C, HTML, CSS, SASS, SQL
Libraries and Frameworks: Django, Bootstrap
Development Tools: UNIX/Linux, PostgreSQL, SQLite, Homebrew, pip, Git

PROJECTS

Brook | *Python, Django, JavaScript, HTML, SASS, CSS, Bootstrap, PostgreSQL*
- Developed a **full-stack web app** allowing YouTube and Spotify track and playlist downloads
- Built a Django-based back-end system implementing **user authentication**, allowing users to create accounts and monitor changes to saved playlists, which identifies and downloads newly added tracks since the last session
- Implemented a **normalized relational schema** with PostgreSQL and Django's ORM to manage track, playlist, and user account data
- Designed a hybrid front-end UI, implementing **Server-Side Rendering** to optimize load times, and **Client-Side Rendering** to provide dynamically generated content
- Integrated YouTube Data and Spotify Web **API**s to obtain track and playlist data for front-end and back-end usage
- Successfully deployed from GitHub to Heroku while managing dependencies

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 by employing the use of **YahooFinance API**

The Wildfire Network | *Python, Django, HTML, SASS, CSS, 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
- Implemented a wildfire prediction algorithm using real-time weather data retrieved from **WeatherAPI** to measure risk of wildfire in a given area

EXTRA-CURRICULARS

CU Esports Officer   Sept 2023 – Present
Carleton University   *Ottawa, ON*
- Fostered a vibrant 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   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**

Math and Coding Tutor   Nov 2021 – Aug 2022
Youth Dream Canada   *Toronto, ON*
- Mentored **4 grade 1-9 students** in one-on-one lessons through bi-weekly lectures and assignments
- Encouraged open conversation and active participation to promote a deeper understanding of lesson topics
- Tailored lesson plans to fit the needs of individual students