

JUSTIN XING

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SKILLS

Languages: Python, JavaScript, TypeScript, C++, C, HTML, CSS, SQL

Frameworks & Tools: React, Django, Bash, Git, Docker, Postman, Figma, MaterialUI, Bootstrap

EDUCATION

University of Waterloo: Candidate for Bachelor of Computer Science **Sep 2022 - Dec 2026**

Cumulative Average GPA: 3.9/4.0 Relevant coursework: CS 135 (Racket), CS 136 (C), CS 246 (C++)

EXPERIENCE

Full Stack Software Engineer Co-op • Qualifacts **Jan 2024 - April 2024**

- Worked on the OnCall Health telehealth web app, creating accessible front-end interfaces using **React**, **SCSS**, and **MaterialUI**, and building robust back-end APIs using **Django**.
- Employed the **test-driven development** methodology, writing exhaustive back-end **unit tests** to guide development and consistently achieve 100% code coverage.
- Reviewed and tested team members' pull requests to improve code quality and catch bugs.

Full-Stack Software Engineer • Simon Fraser University **May 2023 - Jan 2024**

- Developed responsive front-end of web app using **React** to allow researchers to perform large scale image analysis in the aim of better understanding the onset and progression of diseases.
- Managed application state using **Redux** to manage user details, authorization, and notifications.
- Styled components using **CSS**, **Material UI**, and **Mantine UI** to design a visually appealing site.
- Collaborated with others to design and call **Django** APIs and deploy full-stack app using **Docker**.

Financial Services Product Intern • Canada Post **May 2023 - Aug 2023**

- Conducted **market research** and analysis on the Canadian payments market to develop product constructs for new financial services to be implemented at over 5900 post offices across Canada.
- Mapped out and redesigned UX for website pages and surveys using **Figma** to drastically increase usability and strategically direct user attention.
- Wrote and implemented various **SQL** queries and their accompanying documentation to manage and supply data to PowerBI, increasing process efficiency to over 500% of the original.

PROJECTS

ShortsNews • McHacks

- Worked in a team of 4 to develop, deploy, and present a video generator app at hackathon.
- Used **Python** and **Django** for web server + database to serve **Twilio** SMS requests.
- Used a combination of **NewsData**, **Giphy**, and **OpenAI APIs**, **Google Cloud TTS**, **FFmpeg**, and **BeautifulSoup** to scrape and manipulate data to generate videos uploaded using **YouTube API**.

Strategy Game Playing Algorithm • Summer 2023 Invitational Terminal

- Worked in a team of 3 to develop **Python** algorithm to compete in an international tournament.
- Competed on the season 8 global ladder, ranking #64 out of 146,163 algorithms.