

William Liu

Canadian Citizen (J-1, TN, H-1B Visa Eligible)

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EDUCATION

Honors in Computer Science (HBSoc.)

Sep 2022 – Present

Western University

London, ON

- **GPA:** 3.93/4.00 (91.4%), Dean's Honour List, Andrew and Sarah Hamilton Scholarship (\$6600)
- **Relevant Courses:** Data Structures and Algorithms, Software Tools and Systems Programming, Computer Organization and Architecture, Applied Logic for Computer Science, Discrete Structures for Computing

SKILLS

Languages: TypeScript, JavaScript, Python, Java, HTML/CSS, SQL, Rust, C

Frameworks: React, Next.js, Node.js, Express.js, Flask, TailwindCSS, pandas

Technologies: Git, MongoDB, Unix/Linux, Docker, PostgreSQL, Jira, Figma

WORK EXPERIENCE

Software Developer Intern

May 2023 – Aug 2023

Streamforge

Remote

- Built a data pipeline using Node.js and Selenium to retrieve data from Twitch and Twitter and generate hundreds of aggregated views per minutes using concurrent asynchronous requests
- Developed a Node.js application to retrieve upcoming game release data using the IGDB and Steam Web API to generate over 800 potential sales leads for sales team
- Produced over 70 thousand clickthroughs to increase sales for the marketing of major video game titles such as Remnant II by reaching targeted audiences through the sponsorship of live streaming creators

UX Intern

Nov 2022 – Apr 2023

Cafezia Coffee

London, ON

- Decreased user bounce rate for company's online store by communicating key UI and UX research findings to the development team and leadership
- Identified multiple new strategies for customer acquisition including geographical targeting and search engine optimization based on analysis of company sales metrics

PROJECTS

Anishelf | *TypeScript, Next.js, Flask, PostgreSQL*

- Built a full-stack web application using Next.js and Flask to create exportable vocabulary flashcard decks based on vocabulary from anime series
- Designed a PostgreSQL database and Flask REST API to handle requests for vocabulary frequency analysis
- Developed a responsive UI on the front end using React and TailwindCSS to display flashcards

YACHIP-8 Emulator | *Rust, SDL2*

- Developed a CHIP-8 emulator using Rust to emulate CHIP-8 system architecture
- Implemented a CPU including the CPU instruction set, registers, and memory management and a front end to display graphics using SDL2

Wealthsimple Product Review

- Built and presented a new product feature to current Wealthsimple product manager that improves the onboarding of first-time investors as one of 29 fellows for the Western Product Society Fellowship

EXTRACURRICULARS

Design Lead

May 2023 – Present

Hack Western

London, ON

- Led a team of four to design UI/UX for the web presence of one of Canada's largest hackathons

VP Design

Oct 2022 – Apr 2024

Western Founders Network

London, ON

- Increased participants by over 150% for Western University's largest product design competition as event co-chair