

William Liu

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EDUCATION

Honors in Computer Science (HBsc.)

Sep 2022 – Present

Western University

Expected Graduation: May 2026

- **GPA:** 3.88/4.00 (90% Cumulative Average)
- Dean's Honor List, Western Scholarship of Excellence (\$8000), Andrew & Sarah Hamilton Scholarship (\$6600)

Honors in Business Administration (HBA)

Sep 2024 – Present

Ivey Business School

London, ON

SKILLS

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

Frameworks/Libraries: React, Next.js, Node.js, Express.js, Flask, TailwindCSS, SQLAlchemy

Tools: Git, MongoDB, Unix, Docker, PostgreSQL, GraphQL, Jira, AWS, Figma

WORK EXPERIENCE

Software Engineer Intern

May 2023 – Aug 2023

Streamforge

Remote

- Enabled 100+ aggregated data results per minute to increase available Twitter data for creator outreach purposes by developing an ETL pipeline using Node.js and Selenium
- Generated 800+ potential sales leads to support targeted client outreach by building automated dashboards using Node.js to retrieve publishing data from APIs on upcoming indie game releases
- Drove over 70,000 clickthroughs by facilitating advertising campaigns for major video game titles such as Remnant II

UX Intern

Nov 2022 – Apr 2023

Cafezia Coffee

London, ON

- Reduced bounce rate on store landing page by 7% by collaborating with engineers to implement UI redesigns
- Drove higher organic user traffic through data-driven SEO recommendations to increase search engine visibility
- Enhanced user experience by optimizing page performance to reduce page loading times of online storefront

PROJECTS

Anishelf | *TypeScript, Next.js, Flask, PostgreSQL, GraphQL, Docker, nginx, Redis*

Jun 2024 - Jul 2024

- Built and deployed a full-stack web application using Next.js, Flask, and Docker to generate exportable vocabulary flashcard decks based on foreign language vocabulary from animated series extracted from subtitle files
- Implemented a message queue system using Redis to handle complex SQL queries asynchronously

YACHIP-8 Emulator | *Rust, SDL2*

Aug 2024 - Sep 2024

- 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

Jan 2024 - Feb 2024

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

LEADERSHIP

Design Lead

May 2023 – Present

Hack Western

London, ON

- Led a team of four product designers through the design thinking process to create physical and digital designs for one of Canada's largest collegiate hackathons
- Worked alongside web development team to create responsive user interface designs using Figma for 1300+ students

Product Design Sprint Co-Chair

Oct 2022 – May 2024

Western Founders Network

London, ON

- Attracted over 250 participants for Western's largest UI/UX competition by leading a team of 12 in overseeing event logistics and negotiating partnerships with BMO, Accenture, and Balsamiq