

William Liu

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EDUCATION

Honors in Computer Science (HBsc.)

Sep 2022 – Present

Western University

London, ON

- **GPA:** 3.93/4.00 (91.4%)
- **Scholarships/Awards:** Dean's Honor List, Western Scholarship of Excellence (\$8000), Andrew & Sarah Hamilton Scholarship (\$6600), BCG Case Competition Finalist (4/156 teams)

Honors in Business Administration (HBA)

Sep 2024 – Present

Ivey Business School

London, ON

TECHNICAL SKILLS

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

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

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

EXPERIENCE

Software Engineer Intern

May 2023 – Aug 2023

Streamforge

Remote

- Built a data pipeline using Node.js and Selenium to automate the aggregation of social media statistics capable of generating 100s of aggregated views per minute using concurrent asynchronous requests
- Produced over 800 potential sales leads by creating dashboards using Node.js to automate the retrieval of publishing data from APIs for upcoming indie game releases
- Facilitated advertising campaigns resulting in over 70,000 clickthroughs for the marketing of major video game titles such as Remnant II and Sea of Stars

UX Intern

Nov 2022 – Apr 2023

Cafezia Coffee

London, ON

- Decreased user bounce rate by 7% for company's online storefront by implementing redesigns to the user interface of the store landing page that targeted key user pain points
- Boosted website traffic through improvements to search engine optimization practices based on analysis of website

PROJECTS

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

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 vocabulary from anime series
- Reduced API endpoint response time by 24 seconds per call by optimizing SQL queries for table holding dictionary data with over 200 thousand rows

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 logistics and negotiating partnerships with BMO, Accenture, and Balsamiq