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, Andrew & 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

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
- Created dashboards using Node.js to automate the retrieval of publishing data from APIs for upcoming indie game releases to produce over 800 potential sales leads
- 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* Jun 2024 - Jul 2024
- Built a full-stack web application using Next.js, Flask, and PostgreSQL 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
- Utilized Docker containers running on a VPS with nginx to deploy and publish the web application

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 investors as one of 29 fellows for the Western Product Society Fellowship

LEADERSHIP

Design Lead May 2023 – Present
Hack Western *London, ON*
- Led a team of four product designers through the creation of physical and digital designs for one of Canada's largest collegiate hackathons
- Worked alongside web development team to create responsive user interface designs for 1300+ applicants and 400+ attendees