

William Liu

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EDUCATION

BSc., Computer Science

Western University

London, ON

Sep 2022 – Present

- Cumulative GPA: 3.97/4.00 (94.6%), Dean's Honour List, Advanced Entry Opportunity to Ivey Business School
- **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: JavaScript, TypeScript, Java, Python, HTML, CSS, SQL, XML, C, Bash

Frameworks: React, Next.js, NodeJS, Express, Flask

Tools: Firebase, Git, Github, MongoDB, Linux, Android Studio, Jira, Miro, Figma, Notion, Agile

WORK EXPERIENCE

Developer Intern

May 2023 – Aug 2023

Streamforge

Remote

- Generated over 800 potential sales leads for a cross-functional team by developing a NodeJS application to fetch upcoming game release data using the IGDB and Steam Web API
- 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
- Conducted quality assurance tests to facilitate the continuous improvement of the company's outreach product

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

Twitch to Twitter ETL | *Node.js, MongoDB*

- Developed an ETL pipeline to collect Twitter data for Twitch creators to be stored in a MongoDB database
- Utilized the Twitch API to retrieve creator usernames and scraped for Twitter profile links using Puppeteer
- Maximized pipeline throughput to handle hundreds of profiles per minute by implementing concurrent asynchronous requests
- Implemented MongoDB aggregation pipelines to generate and continuously update a 30 day aggregated view of a user's tweet statistics

Sunshelf | *Next.js, Flask, MongoDB*

- Built a full-stack web application using JavaScript and Python to create exportable vocabulary flashcards through the upload and analysis of Japanese text documents
- Utilized the MeCab library to segment Japanese text and parsed an XML dictionary to retrieve definitions
- Implemented a robust RESTful API using Flask to handle CRUD requests on the backend

EXTRACURRICULARS

VP Design

Oct 2022 – Present

Western Founders Network

London, ON

- Oversaw logistics and event planning for the Product Design Sprint competition, attracting over 100+ participants
- Developed design system and branding assets for major case competitions and hackathons hosted by the club

Design Lead

May 2023 – Present

Hack Western

London, ON

- Designed the UI and user flow for the promotional website, application portal, and live site of one of Canada's largest hackathon using Figma