

# Lei Wu

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## Skills

**Programming** Python, Java, C/C++, JavaScript, HTML/CSS  
**Technologies** Git, node/react.js, WebSockets, MongoDB, Figma

## Education

### Carleton University

Ottawa, ON

**BCS in Computer Science** Game Development Stream 4.0 GPA (12.0)

Sept 2022 - Current

- **Courses:** Abstract Data Types and Algorithms, Fundamentals of Web Applications, Introduction to Systems Programming
- **Extracurriculars:** Exec for Varsity Badminton & Badminton Club, Ultimate/Volleyball Intramural

## Experience

### Carleton University

Ottawa, ON

Web Development COMP 2406 Teaching Assistant

Sept 2023 - Current

- Impacted the lives of **300+** students performance through hands-on **teaching** during in-person tutorials and office hours
- Worked in a **team** environment to ensure that the course preceded smoothly.
- Applied my in-depth knowledge of web development to provide students with valuable insights and guidance to tackle complex challenges.

### Glimpse Social Inc.

Toronto, ON

UX/UI Designer

June 2022 - Current

- Utilized the **Adobe Creative Suite** to design flow, user interface, wireframes, and promotional content.
- Leveraged **HTML/CSS** and **JavaScript** to design a support page for company website.
- Designed a business-interfacing guideline for product utilization distributed to **100+** businesses.

### DAQA

Los Angeles, CA

QA Analyst

Apr 2022 - Aug 2022

- Performed **black box testing** on gameplay, graphics, audio, UI, etc. on upcoming unannounced titles.
- **Communicated** with the development team regarding bugs found with detailed feedback.
- Provided input on how the game could be **optimized** for more enjoyable gameplay.

### Kumon

Brantford, ON

Tutor/Assistant

Nov 2017 - Sep 2020

- Thoroughly explained topics ranging from basic reading to calculus to students aged from 3 to 17.
- Provided tutorials to new employees on how to **effectively teach** students using the designated 'Kumon' methods.
- Tracked learning progress in order to **identify opportunities** to further enhance learning or reinforce areas of weakness.

### Shad Canada

Waterloo, ON

Shad Fellow

Jun 2019 - Jul 2019

- Developed **design thinking principles** to problem solve effectively over the course of 40+ hours of design thinking workshops.
- Collaborated as a team of 6 to create a feasible solution to the sustainability problem of reducing waste.
- Created a prototype of a band that promotes the use of reuse-able bottles through positive reinforcement in social media.

## Projects

### Clean Vision

Mar 2023

- Uses **OpenCV**, **Tensorflow**, and **python** to detect what the current material in focus is.
- Utilizes **WebSockets** to provide real-time updates to the user interface.
- Winner at Hack the Hill **2nd Place Cohere Challenge** (100+ Challenge Participants)

### Real-Time Stock Exchange Data Visualization

Jan 2023

- More than **200k** point of data in the form of Json files were parsed so that only get the transactions that actually went through.
- Built a web-app in p5 that can take in data points from **WebSockets** to display stock transactions with a unique solar system design.
- Transactions were labeled anomalies if they were considered an outlier in statistical analysis based on data stored throughout the day.

### Keyword-Based Python Search Engine for Web Pages

Oct 2022

- Built a web-crawler in **Python** to capture and parse webpage text to determine search quantities
- Implemented search query functionality involving **PageRank**, **cosine similarities**, and **TD-IDFs**.
- Stored search quantities using various document database paradigms to improve runtime complexity.