

# HELEN LUONG

📍 Toronto, ON, Canada



+1 437 229 0262



ltdiemhang00@gmail.com



linkedin.com/in/-helen-luong-



github.com/tdhluong

## PROJECTS

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### Fitness Class Scheduling

*Web Scraping Script - C# (Selenium)*

- Designed and developed an app to register for weekly fitness classes at specific times.
- Supports **automatic login**, program filtering, and class selection based on availability, location, and predefined time slots.
- Delivered a solution that automates the registration workflow, **reducing manual effort** and ensuring timely class bookings.

### Othello

*Desktop Application - Java (JavaFX)*

- Designed and implemented the two-player board game Othello.
- Applied **MVC** architecture to separate game logic, user interaction, and display, emphasizing object-oriented design principles.
- Developed a **GUI** for Human vs Human and Human vs Computer modes, utilizing **Greedy** and **Random algorithms**.
- Implemented strategy **design patterns** to switch between player types and AI strategies dynamically.

### Camping Ambience

*Web Application - HTML, CSS, JavaScript (React)*

- Designed and built a **user-friendly** virtual camping ambience sound player application using **React**.
- Includes a dark mode toggle that allows users to choose between **day/night themes**.
- **Intuitive UI** that allows users to choose from a selection of peaceful melodies and sounds from nature.

## VOLUNTEER EXPERIENCE

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### York University - Data Collection and Benchmarking Intern

Jan 2025 - present

- Contributed to building benchmark datasets for **evaluating Gemini's performance** on less-known libraries.
- Identified and extracted functions from GitHub repositories using **regex-based parsing**.
- Designed and refined code generation prompts using LLM-generated descriptions.
- Enhanced dataset quality by **reviewing and verifying prompts** for functional accuracy.
- **Created test cases** where absent, using Gemini and **manual validation** processes.

## EDUCATION

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### B.Sc Computer Science

York University, Toronto, CA

Expected: Apr 2025

### Business Administration Advanced Diploma

Humber College, Toronto, CA

Jan 2020 - Jan 2022

## SKILLS

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**Programming Languages:** Java, C#, JavaScript, HTML, CSS, C

**Frameworks:** React, Spark's SQL, React Native

**Tools:** Visual Studio, Visual Studio Code, Eclipse, GIT