Louie Yin

University of Waterloo Software Engineering

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EDUCATION

University of Waterloo — Waterloo, ON, CA
Bachelor of Software Engineering — *Sept. 2024 – Apr 2029*
- Grade Average: 92%
- Varsity Swimming

Parkdale Collegiate Institute — Toronto, ON, CA
International Baccalaureate Diploma + Ontario Secondary School Diploma — *Sept. 2020 – Jun 2024*
- Founder + President of Coding Club; President of Announcements Team; 150+ Hours of Community Service

TECHNICAL SKILLS

Languages: JavaScript, Python, C, HTML/CSS
Technologies: Git, NodeJS, Windows, Linux/Unix, Flask, Prism, Websocket, RegEx, CAD

PROJECTS

AI Cooking Assistant | *Python, JavaScript, HTML, CSS, Git* — December 2024
- Processed **2+ million data points** using OpenAI Batch API to allow LLaMa fine-tuned LLM to generate recipes, reducing processing time by a **factor of 40x** and processing costs to **under $10**
- Used Flask and Websocket to build a fullstack application that allows user data to be processed and requsted in real-time, facilitating assistant-user conversation
- Built a minimalistic front-end UI with an audio visualizer, combined with TTS/SST functions built with RegEx, allowing the virtual assistant to be responsive and adaptive in conversation with the user
- Designed container using CAD for Raspberry Pi and temperature + gas sensors to collect real-time cooking data

Coding Club Website | *JavaScript, HTML, CSS* — March 2023
- Created a front-end application containing the Coding Club syllabus, aiding peers in learning web development
- Built a clean, multi-page application with navbar and smooth animations using HTML, CSS, and JS, **enhancing UX** by making key information and coding concepts more accessible and noticeable
- Designed fully customized code snippets using Prism, allowing code to be presented in an eye-friendly manner by using **colour theory** to match the **UI** theme, resulting in key pieces of code to stand out easily, enhancing UX

Discord Bot | *JavaScript, Git* — September 2020
- Used NodeJS to implement the Discord API with modular and asynchronous programming, resulting in the optimized development of a fully-functional Discord Bot with a wide variety of custom Discord commands
- Used Git for version control, facilitating **external deployment** to Heroku and DigitalOcean to keep the bot live

EXPERIENCE

Lifeguard, Swim Instructor, and Wading Pool Attendant — April 2022 – August 2024
City of Toronto — *Toronto, ON, CA*
- Ensured patron safety and established good patron rapport, facilitating a welcoming environment
- Taught and examined swim skills, resulting in overwhelming patron satisfaction and **supervisor gratitude letter**
- Maintain Lifesaving and Swim Instructor Qualifications (**7 certifications**), **25+ training hours annually**

Mentor — July 2022 – July 2022
University of Toronto — *Toronto, ON, CA*
- Aided UofT students and professors in delivering engineering lectures and workshops, facilitating a fun and engaging atmosphere with the children which resulted in increased learning

Math Contest Tutor — December 2020 – September 2021
Feng Da Education — *Toronto, ON, CA*
- Taught advanced, contest-level math concepts to 12-13 year olds by creating personalized lessons and weekly homework practice to engage and motivate students to learn

HONOURS AND CERTIFICATIONS

- **Governor General's Medal of Canada** for maintaining the highest academic average in high school (2024)
- **Paris 2024 Olympic Swimming Trials Qualifier**, Canadian Nationals Finalist (2024)
- RCM Piano Level 10 First-Class Honours + Level 7 and 8 Certificates with Distinction (2023)