

# Louie Yin

## University of Waterloo Software Engineering

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### EDUCATION

#### University of Waterloo

*Bachelor of Software Engineering*

Waterloo, ON, CA

Sept. 2024 – Apr 2029

- **GPA: 3.97** (92%)
- Varsity Swimming

#### Parkdale Collegiate Institute

*International Baccalaureate Diploma + Ontario Secondary School Diploma*

Toronto, ON, CA

Sept. 2020 – Jun 2024

- **Founder + President of Coding Club**
- President of Announcements Team
- 150+ Hours of Community Service

### TECHNICAL SKILLS

**Languages:** Proficient in JavaScript, Python, C, HTML/CSS (Front-End)

**Technologies:** Git (Version control), NodeJS, Windows, Flask, Prism, Websocket, RegEx

**Competencies:** Organized, Communicative, Collaborative, Adaptable, Takes Initiative, Self-Motivated, Public Relations

### PROJECTS

#### AI Cooking Assistant | *Python, JavaScript, HTML, CSS, Git*

December 2024

- LLaMa fine-tune LLM from scratch, 2+ million data points processed by OpenAI Batch API for recipe generation
- Fullstack application using Flask and Websocket, requesting and processing real-time user data asynchronously
- HTML, CSS, JS at the front-end for minimalistic UI with audio visualizer connected to user's speakers for virtual assistant audio output. Microphone access to allow conversation between virtual assistant and user
- TTS/STT functions built with RegEx, allowing assistant to adapt to user responses, facilitating conversation
- Raspberry Pi connected to temperature and gas sensors to collect real-time cooking data, designed with CAD
- Git was used for extensive version control to facilitate collaboration with other project-members asynchronously

#### Coding Club Website | *JavaScript, HTML, CSS*

March 2023

- Front-end application containing coding club syllabus to aid peers in learning basic web development
- HTML, CSS, JS used to build a clean multi-page application with navbar and smooth animations to enhance UX
- Code snippets made with Prism, fully customized, to contribute to the user/eye-friendly UI design

#### Discord Bot | *JavaScript*

September 2020

- Built using NodeJS for optimized Discord API calls, facilitating modular programming
- Asynchronous code allows for custom Discord commands (e.g. gifs, embedded YouTube, polls, purge, suggestions)
- Git used for version control and external deployment on 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*

- Operate pools, regularly test chemicals, ensure patron safety, enforce city policies, establish good patron rapport
- Teach swim skills to patrons, provide critical, personalized and progressive feedback
- Maintain LSS Qualifications (National Lifeguard, Safety First-Aid, CPR-C), 25+ training hours annually
- Maintain Swim Instructor Qualifications (Swim Instructor, Lifeguard Instructor, Emergency First-Aid Instructor)

#### Mentor

July 2022 – July 2022

*University of Toronto*

*Toronto, ON, CA*

- Aided UofT students and professors in delivering engineering lectures and facilitating workshops
- Engaged with the children to ensure they had fun and learned new engineering skills

#### Math Contest Tutor

December 2020 – September 2021

*Feng Da Education*

*Toronto, ON, CA*

- Taught advanced, contest-level math concepts to 12-13 year olds
- Created personalized lessons and homework practice weekly to engage and motivate kids to learn more

## HONOURS AND CERTIFICATIONS

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- Governor General's Academic Medal of Canada (2024)
- Paris 2024 Olympic Swimming Trials Qualifier, Canadian Nationals Finalist, Provincial Silver Medalist (2024)
- RCM Piano Level 10 First-Class Honours + Level 7 and 8 Certificates with Distinction (2023)

## REFERENCES

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- Available upon request