

# Leo Zhang

647-390-4658 | [leo-zhang.com](mailto:leo-zhang.com) | [leo.zhang@outlook.com](mailto:leo.zhang@outlook.com) | [LinkedIn](#) | [GitHub](#)

## EDUCATION

### University of Waterloo

*Systems Design Engineering Student*

Waterloo, ON

Sep 2025 – Apr 2030

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, TypeScript, JavaScript, HTML, CSS

**Frameworks & Libraries:** React, Next.js, Flask, Tailwind CSS, Tesseract OCR, PyTest, Jest

**Tools & Platforms:** Git/GitHub, Docker, AWS S3, Cloudflare, Vercel

**APIs & Services:** OpenAI API, Spotify Web API, REST APIs, OAuth 2.0

**Other:** Agile/Scrum, CI/CD Pipelines, WebSocket, Payment Processing, Excel (Pivot Tables, VLOOKUP)

## WORK EXPERIENCES

### Software Engineer

May 2025 – Aug 2025

*Incendium Academy*

Toronto, ON

- Built a scalable full-stack web platform with **Next.js**, **Flask**, and **PostgreSQL**, serving **1,000+ active users**
- Optimized backend queries and implemented **Cloudflare caching** to reduce system latency by **30%**
- Delivered product features across **4 Agile sprints**, using **Git**, **CI/CD pipelines**, and automated testing
- Built **unit and integration pipelines** with **PyTest** and **Jest**, cutting pre-production defects by **40%**

### Ski Instructor

Dec 2022 – Mar 2025

*Uplands Golf and Ski Club*

Toronto, ON

- Delivered **300+ personalized lessons** using **CSIA methodologies**, accelerating student progression by **25%**
- Mentored **15+ apprentices** and trained **10+ new instructors**, standardizing lesson and operational procedures
- Collaborated with a team of **12 instructors** to adapt teaching plans for diverse learners and snow conditions

## PROJECTS AND CONTRIBUTIONS

### Bridgette | *Docker, Python, React, Flask, HTML, CSS, TypeScript, OpenAI API*

Oct 2025

- Developed a data processing platform that merged **100+ data files** across schemas with **99%** validation accuracy
- Built **Flask REST APIs** for schema compliance and automated validation, reducing manual review time by **85%**
- Implemented scalable **Docker containerization** and **CI/CD pipelines**, accelerating deployment by **70%**
- Integrated **OpenAI API** for schema matching and error correction, improving data parsing efficiency by **40%**

### Personal Website | *Next.js, React, Tailwind CSS, TypeScript AWS S3, Spotify API*

Sept 2025

- Deployed a **Next.js + Tailwind CSS** frontend with **SSR/SSG**, achieving a **95+ Google Lighthouse score**
- Implemented the **Spotify Web API** with **OAuth 2.0** and **React hooks** for real-time music display
- Created a **custom CMS** with **MDX** and **React components**, reducing deployment time by **93%**
- Streamlined performance with **React.lazy**, **dynamic imports**, and **AWS S3 CDN**, reducing load times by **65%**

### Preppin' Nutrition | *React, Flask, OpenAI API, Tesseract OCR, Python*

Jul 2024

- Constructed **Flask + OpenAI API** microservice processing **5,000+ queries** with **94% accuracy**
- Implemented **Tesseract OCR** with **OpenCV** image preprocessing, reducing manual data entry time by **90%**
- Led **4-person team** through agile **SDLC**, delivering production MVP in **36 hours**
- Developed **React SPA** with authentication, payment processing, and user data forms supporting **150+ users**

## SOCIETIES AND EXTRA-CURRICULARS

### Hack Club Chapter Leader |

Jul 2024

- Established **10+ coding workshops** in data structures and algorithms, boosting project completion by **50%**
- Guided **30+ students** in **Python**, **Java**, and **C++**, enabling **15+** shipped projects
- Coordinated **10+ tech events** including hackathons and career panels, expanding member engagement by **60%**