Leo Zhang

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EDUCATION

University of Waterloo   Waterloo, ON
Systems Design Engineering Student   *Sep 2025 – Expected Apr 2030*

TECHNICAL SKILLS

Languages: Python, Java, C++, TypeScript, JavaScript, HTML, CSS
Frameworks & Libraries: React, Next.js, Flask, FastAPI, REST API, Tesseract OCR,
Tools & Platforms: Git/GitHub, Cloudflare, PostgreSQL, Figma

WORK EXPERIENCES

Software Engineer   May 2025 – Aug 2025
Incendium Academy   *Toronto, ON*
- Built and maintained a full-stack website using **Next.js**, **TypeScript**, **Flask**, and **PostgreSQL** for **1000+** users
- Boosted system performance by **30%** through **Cloudfare caching**, and iterative troubleshooting
- Improved application performance by **15%** across **4 Agile sprints** using **Git** and **CI/CD**
- Reduced critical bugs by **40%** during pre-production by building testing pipelines using **PyTest** and **Jest**

Rink Guard   Oct 2024 – Jun 2025
City of Toronto   *Toronto, ON*
- Monitored the safety of **100+** weekly skaters by following accident prevention protocols and enforcing rink rules
- Collaborated with a team of **5** staff members to coordinate patrol and reduce incident response times by **10%**

Ski Instructor   Dec 2022 – Mar 2025
Uplands Golf and Ski Club   *Toronto, ON*
- Delivered **300+** lessons with clear communication using **CSIA** techniques that boosted skill progression by **25%**
- Mentored **15+** apprentices and supervised **10+** new instructors on teaching and operational procedures
- Collaborated with **12** ski instructors to adapt daily teaching plans for diverse learners and conditions

Administrative Assistant   Sep 2022 – Jun 2023
Mckee Public School - Afterschool International Languages Program   *North York, ON*
- Reduced reporting errors by **12%** by using **formulas**, **pivot tables**, and **VLOOKUP** in **Excel**
- Presented **50+** reports using advanced formatting and data visualization through **Word** and **PowerPoint**
- Led communications between parents and teachers, ensuring accurate information flow and timely updates

PROJECTS AND CONTRIBUTIONS

Preppin' Nutrition | *CSS, HTML, JavaScript, Python, Tesseract OCR, Git*   Jul 2024
- Engineered a **Flask** backend with **LLM prompt desig** using the **OpenAI API** to generate **5,000+** requests
- Integrated **Tesseract OCR** to extract nutritional data from images, eliminating manual entry times by **80%**
- Spearheaded a 4-person team to deliver a working full-stack prototype at **StarterHacks** by executing a **SDLC**
- Built a **React** interface that improved recipe accessibility for **100+** users and increased load handling by **60%**

Chess Engine | *Python, PyGame*   Feb 2023
- Implemented **alpha-beta pruning** and **minimax** search algorithms, improving evaluation accuracy to **1600 Elo**
- Optimized computation efficiency through profiling, modular design, and iterative debugging

SOCIETIES AND EXTRA-CURRICULARS

Hack Club Chapter Leader | Jul 2024
- Led **10+** coding workshops that increased member project completion by **50%**
- Mentored **30+** students in **Python**, **Java**, **C++** to help members launch functional programs
- Organized **10+** club events, boosting club engagement by **60%** and strengthening collaborative skills