

# LEON ZHU

647-916-5156 | [lzhu294@uwo.ca](mailto:lzhu294@uwo.ca) | [linkedin.com/in/leon-zhu](https://linkedin.com/in/leon-zhu) | [lezhzhu.ca](https://lezhzhu.ca)

## EDUCATION

### University of Western Ontario

Bachelor of Science in Computer Science, Minor in Software Engineering

June 2025

London, ON

## EXPERIENCE

### Software Engineering Intern

May 2023 – Aug 2024

JD Power

London, ON

- Spearheaded QA transformation for the Power Information Network system, performing data engineering on 8 vendor data streams using Python, BigQuery SQL, and ETLs
- Developed a bespoke data visualization dashboard to monitor changes using Seaborn and Python, alongside 99% test coverage
- Aided in company-wide transition to cloud computing using Kubernetes containers and BigQuery workflows, resulting in a 70% increase in data capacity
- Designed new techniques to process automotive data using performant Python, speeding up the QA process by 5 person-hours per batch
- Nominated for Intern of the Year for excellence in technical performance, being top 4 out of 23
- Excelled as a technical leader and mentor for 2 other interns, developing video and textual documentation for the product system from scratch

### Web Developer

Oct 2022 – April 2023

Western University

London, ON

- Excelled in integrating advanced front-end frameworks with Typescript, JavaScript, and Python, with product designs in Figma
- Overhauled 25% of back-end frameworks, leading to improved service speed and user experience
- Designed and planned future integration with key technologies such as Google Firebase and Twilio, improving feature set for stakeholders by 30%

## ACTIVITIES AND PROJECTS

### Director of Education, Western AI *(Python, Streamlit, JavaScript, Powerpoint)*

Oct 2024 – Present

- Created and delivered lectures on foundational topics in AI, such as Linear Regression and Explainable AI (XAI)
- Improved audience understanding by 60% using interactive Python Streamlit demos

Links: [GitHub](#) | [Video Demo](#)

### Campus Ambassador, Warp

Jan 2025 – Present

- Leading campus outreach at Western University for Warp.dev, the leading AI for command line

### Personalized Workout Plan *(TypeScript, Vite, Express, Node.js, Postgres)*

Nov 2024

- Automatically generates workouts based on user-selected muscle groups, with Postgres database for data availability

Links: [GitHub](#) | [Video Demo](#)

### Travel Emissions Calculator *(Python, Streamlit, GeoPy)*

Oct 2024

- Calculates and compares Co2 Emissions of every travel option between two cities in the world

Links: [GitHub](#) | [Deployment](#)

### VERSA: Academic Paper Chatbot *(Python, Reflex, JavaScript, React)*

April 2024

- Enhances research paper understanding by 20% using Google Gemini API and Reflex

Links: [GitHub](#) | [Deployment](#)

## TECHNICAL SKILLS

**Languages:** Python, Java, SQL (MySQL, NoSQL), JavaScript, TypeScript, HTML/CSS

**Frameworks:** Node.js, Express, Spring Boot, Flask, JUnit, Cucumber BDD, Google BigQuery

**Developer Tools:** Git (CI/CD), Amazon Web Services (AWS), GCP, Azure, Postman, Figma, Docker/Kubernetes

**Libraries:** React, Playwright, Reflex, ThreeJS, scikit-learn, Seaborn