

LEON ZHU

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EDUCATION

University of Western Ontario

Sept 2020 – April 2025

Bachelor of Science in Computer Science, Minor in Software Engineering

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

- Led a major revamp of the Languages departmental website, integrating advanced automation and user-friendly design
- 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](#)

IMAX Theater Search *(TypeScript, Node.js, ThreeJS)*

Nov 2024 – Present

- Helping users find authentic IMAX theaters for a better movie-going experience

Links: [GitHub](#) | [Liemax.ca](#)

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

HOBBIES AND INTERESTS

Psychology Research, AI Research, Curling, Fencing, Indie Films, FPV Drones