LEON ZHU

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EDUCATION

University of Western Ontario June 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
- 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