Weiyi Zeng

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Technical Skills

IBM i (AS/400) RPG, CL, DB2 SQL, SYNON
Databases: MySQL, PostgreSQL, MongoDB, Oracle
Tools: Git, VS Code, Eclipse, Postman, Automation

Development: Python, Java, Flask, Spring Boot, React
Cloud & DevOps: AWS, Azure, Docker, Google Cloud
Soft Skills: Leadership, Strategic Thinking, Communication

Experience

Software Engineer — Sep 2025 – Current
EllisDon Corporation — *London, Canada*

- Developed and maintained **enterprise finance features** across **7 environments**, integrated with **web services**
- Integrated new platform **Workday** with **2 internal systems** to streamline confidential **data synchronization**

Software Engineer Co-Op — May 2025 – Aug 2025
EllisDon Corporation — *London, Canada*

- Enhanced and supported enterprise system across 5 environments, ensuring smooth integration with web services
- Led **data integration** efforts to support company's expansion into the U.S. market, including cross-border CIBC bank account reformatting and processing differences between Canada and the U.S.
- Integrated **60+ SQL programs** to improve reporting, validation, and automation across multiple departments

Software QA Analyst Co-Op — Jan 2025 – May 2025
EllisDon Corporation — *London, Canada*

- Wrote test cases and performed manual and automate testing, using **Postman**, TestRail, and Fortra Automate
- Built **8+** automated bots to streamline system maintenance, monitor data flow, reduced 50% manual intervention
- Supported cross-functional teams by validating data, fixing web services fixes, and documenting troubleshoots

QA Assistant Co-Op — May 2024 – Jul 2024
Nortera — *Strathroy, Canada*

- Assisted with QA reporting and data digitization to improve traceability and support production efficiency.

Software Developer Intern — May 2023 – Sep 2023
Guangzhou Fancy M&E Technology Co. Ltd. — *Guangzhou, China*

- Assisted in developing and testing **80%** software features to support team workflows and product improvements.

Projects

Thesis: Gamified Fitness Tracker with AI Coaches | *Python, Flask, MySQL, AI/ML, AES Encryption* — Mar 2025

- Developed a microservice-based fitness **web application** integrating AI-driven coaching and adaptive gamification to improve user engagement; **Trained ML models (Random Forest, ANN, SVM)** to predict push-ups, sit-ups, and running metrics using user data; optimized via hyperparameter tuning on MSE, MAE, and R^2.

Microservice-Based Cloud Booking System | *Python, Flask, MySQL, Docker, Azure, REST* — Dec 2024

- Built a **cloud-hosted** racquet sport booking platform with Flask and MySQL, featuring facility reservation, partner matching, and member management; implemented service health monitoring, failover, and real-time service discovery using Azure Front Door.

Education

University of Western Ontario — *London, Canada*
*BSc, Honours Specialization in Computer Science, Upper-Year GPA: **3.9/4.0*** — *Graduated Feb 2026*

- **Key Coursework:** Thesis, Software Design & Architecture, Computer Organization, Object-Oriented Design and Analysis, Data Structures & Algorithms, Computer Architecture and Organization, Systems Programming, Databases, Networks, Statistics, Operating Systems
- **Awards:** Dean's Honour List 2024, 2025, 2026

Certificates

IBM Full-Stack Software Developer Professional Certificate | *Credential ID: HDX3EIP3XOW6* — Aug 2025
Google Data Analytics Specialization | *Credential ID: Z94IJKK603FK* — May 2025