

# Weiye Zeng

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## Technical Skills

**Languages:** Java, Python, C, C++, SQL, RPG, CL

**ML Frameworks:** PyTorch, TensorFlow, Scikit-learn

**App Frameworks:** Flask, FastAPI, LangChain, LlamaIndex

**Cloud/Tools:** AWS, Azure, GCD, Docker, Git, Linux

**Databases:** DB2, MySQL, PostgreSQL, MongoDB, Oracle

**AI/ML Tools:** Pandas, NumPy, Matplotlib, Jupyter

## Experience

### Software Engineer

Sep 2025 – Present

*EllisDon Corporation*

*London, Canada*

- Developed and maintained **enterprise finance features** across **7 environments**, integrating with **web services**
- Contributed to **Workday** integration with the internal systems, debugging **SOAP/REST API issues**
- Developed **10+** scripts with **parallel processing** and modular **procedures**, and reduced **84%** of manual process
- Provided **production support** troubleshooting, resolving **100+** incidents, and ensuring system uptime
- Collaborated on **CDC data replication**, transferring IBM i data to data engineering pipelines using **MySQL**, **CDC servers** and **GCP data platforms**

### Software Engineer Co-Op

May 2025 – Sep 2025

*EllisDon Corporation*

*London, Canada*

- Enhanced and supported **8** finance modules, improving system stability and integration reliability.
- Contributed to integration for CIBC US bank format differences and data transformation
- Integrated **60+** **query programs** to improve reporting, validation, and automation across multiple departments
- Received **outstanding review** from managers and end-users, recognized for performance and contribution

### Software QA Analyst Co-Op

Jan 2025 – May 2025

*EllisDon Corporation*

*London, Canada*

- Designed **100+** manual and automated test cases, validating financial workflows in a **SCRUM** framework.
- Built **8+** automated bots to streamline system maintenance, monitor data flow, reduced **50%** manual intervention
- Supported **10+** cross-functional teams by validating data, fixing web services, and documenting troubleshoots

### QA Assistant Co-Op, Software Developer Intern

May 2024 – Jul 2024, Apr 2023 – Sep 2023

*Nortera, Guangzhou Fancy M&E Technology Co. Ltd.*

*Strathroy, Canada, Guangzhou, China*

## Projects

### AI Financial Agent Copilot | *Python, OpenAI API, Claude MCP, Tool Calling, AI Agent, RAG, Pandas* Apr 2026

- An OpenAI **tool-calling** financial **AI Agent** that automated banking transaction ingestion, categorization, and reporting through a multi-step workflow with persistent memory.
- RAG-based merchant memory** reduced repeated LLM calls by **70%+** and improved categorization.
- MCP tool exposure** enabled AI-client Claude integration and natural-language access to financial operations.
- Designed an **ETL** data pipeline to extract, clean, normalize raw transactions, and load structured outputs.

### Thesis: Gamified Fitness App with AI Coaches | *Python, Flask, MySQL, RandomForest/ANN/SVM* Mar 2025

- Microservice-based fitness web application with **AI-driven** coaching adaptive gamification to boost engagement.
- Trained and compared ML models to predict fitness metrics, optimized accuracy by **finetuning** hyperparameters.

### Microservice-Based Cloud Booking System | *Python, Flask, MySQL, Docker, Azure, REST*

Dec 2024

- Cloud-hosted** racquet sport booking platform with reservation, partner matching, and management features.
- Implemented service monitoring, failover, and discovery using Docker and Azure for scalable microservices.

## Certificates

**IBM Full-Stack Software Developer Professional Certificate** | *Credential ID: HDX3EIP3XOW6*

Aug 2025

**Google Data Analytics Specialization** | *Credential ID: Z94IJKK603FK*

May 2025

## Education

**University of Western Ontario**

*London, Canada*

*BSc, Honours Specialization in Computer Science, GPA: 3.9/4.0*

*Graduated Feb 2026*

**Awards: Dean's Honour List 2023, 2024, 2025, 2026**