

# Jerry Kang

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## EDUCATION

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**University of Waterloo** Kitchener ON, Canada  
*Master of Applied Science, Systems Design Engineering (AI/ML Spec)* 2026 – 2028

**Western University & Ivey Business School** London ON, Canada  
*Bachelor of Science, Honours Computer Science – 90.5% GPA* 2021 – 2026  
*Bachelor of Arts, Honours Business Administration – 82% GPA* 2023 – 2026

## EXPERIENCE

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**AI Software Developer** May 2025 – Aug 2025  
Nestlé Toronto, ON

- **Led end-to-end development of an LLM Reporting Assistant**, working with Sales and Marketing to define user stories, integrate data sources, and automate internal reporting workflows.
- Researched and reimplemented Natural Language to SQL techniques to **prototype a Text-to-DAX generator** that converts user prompts into data retrieval queries.
- **Designed AI system architecture**, defining data flow, agent responsibilities, tool invocation patterns, and RAG retrieval integration for LangGraph based execution.
- **Developed full stack components**, including a responsive React frontend, a FastAPI backend in Python, SQL schemas, and Azure deployment.

**AI Data Analyst** May 2023 – Apr 2025  
Fundata Canada Toronto, ON

- Led a team of 3 to 4 analysts in **building and deploying AI applications**, managing project workflows, timelines, and cross departmental coordination.
- Developed an **AI document scraper** (C#, SQL, OpenAI API), automating extraction of 25+ high-value datapoints for over 20,000 files, resulting in **1000 plus staff hours saved annually**.
- Trained and deployed **machine learning** models using PyTorch, including neural networks and random forests, improving data accuracy and completeness through classification.

**Analytics and Data Associate** May 2022 – Apr 2023  
Vincent Associates Toronto, ON

- Developed Python and Selenium-based **web crawlers** to automate timely collection of key data.
- Designed **VBA tools** to enhance efficiency in analytics, improving audit efficiencies by up to 30%.
- Managed and mapped new data to the investment database using Excel, R and SQL, performing rigorous quality checks and validations to verify data accuracy.

## RESEARCH & PROJECTS

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### AI Integration for Political Data Systems – Queen Street Analytics

- Developed AI-assisted data processing and web retrieval systems to continuously collect, structure, and update comprehensive datasets on Canadian political actors.

### ModelHub Interact – <https://github.com/jykang/ModelHub-Interact>

- Built an AI chatbot interface for ModelHub, a machine learning model repository, enabling easy discovery and use of pre-trained machine learning models without technical knowledge needed.
- Utilized Next.js, Typescript, and Docker to create a robust and scalable application.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript/TypeScript, Java, C#, SQL, C++, HTML, CSS

**Frameworks & Libraries:** React, Next.js, LangChain/LangGraph, FastAPI, PyTorch, TensorFlow, Selenium

**Platforms & Tools:** Azure, Docker, OpenAI API