

James Lee

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SKILLS

Programming: Python, SQL, JavaScript, R, Java

GenAI & Agents: LangChain, Hugging Face, OpenAI, MCP, CrewAI

Cloud & DevOps: AWS, Docker, Kubernetes, Git, Linux

EXPERIENCE

LLM Engineer

Greenalytica, Toronto, ON

May 2025 – Present

- Engineered an agentic AI chatbot for analyzing and reporting Scope 3 carbon emissions, enabling SMEs to monitor sustainability metrics in real time
- Developed multi-agent RAG pipelines using LangGraph ReAct agents powered by LLM APIs (GPT), Ollama SLMs, and Hugging Face Transformers
- Designed and deployed scalable RESTful APIs with FastAPI and PostgreSQL to support low-latency data access and multi-turn conversational workflows

Data Scientist Intern

Questrade Financial Group, Toronto, ON

May 2022 – Aug 2022

- Increased PII data masking coverage from 79% to 93% using regex-based detection and Google Cloud DLP, improving regulatory compliance across customer datasets
- Analyzed 2.8M+ client chat transcripts using n-gram NLP models to uncover intent patterns and enable data-driven support initiatives
- Productionized an internal chatbot support tool via CI/CD pipelines on GKE with Datadog integration for monitoring system availability

Data Scientist Intern

TD Bank Group, Toronto, ON

Sep 2021 – Dec 2021

- Formulated graph-based algorithms on internal client-advisor relationships, identifying 35% of mismatches
- Modeled customer churn with deep neural networks in TensorFlow and delivered BI dashboards to guide retention strategies
- Migrated ETL pipelines from SQL Server to PySpark and automated workflows with Apache Oozie, increasing processing efficiency by 22%

Software Engineer Intern

Manulife Financial Corporation, Waterloo, ON

Jan 2021 – Apr 2021

- Refactored document ingestion service architecture, increasing throughput by 27% through optimized metadata scanning
- Implemented a PowerShell compiler script for document indexing and retrieval, reducing query latency by 40%

EDUCATION

Master of Science (MS): Computer Science

Georgia Institute of Technology, Atlanta, GA

Aug 2025 – Expected Aug 2027

Graduate Certificate: Artificial Intelligence with Machine Learning

Humber Polytechnic, Toronto, ON

Sep 2024 – April 2025

Bachelor of Applied Science (BASc): Management Engineering

University of Waterloo, Waterloo, ON

Jan 2018 – Aug 2022