

Brian Lee

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Technical IT Skills

Programming Languages: Python 3, R, Java, JavaScript, C/C++

Frameworks: Node.js, Langchain, Scikit-Learn, Ollama, Langsmith, Django, Flask, FastAPI, LangGraph, AWS, Microsoft Azure, Google Cloud, Docker, PySpark, PyTorch

Data Languages/Frameworks: SQL, PostgreSQL, MongoDB, QDrant, ChromaDB

LLMs: GPT, Google Gemini, Anthropic Claude, Perplexity, Grok, Deepseek, Mistral

Education and Certificates

Simon Fraser University

Bachelor of Sciences - Data Science

Sept 2021- May 2027

Microsoft Certified: Azure AI Engineer Associate

Feb 7, 2024

Projects

HR Agentic Assistant – LangGraph, FastAPI, Livekit, Arcade Tools

- Built an agentic AI-driven Resume and Job Assistant leveraging **LangGraph, FastAPI, and Streamlit**, capable of parsing, analyzing, and evaluating resumes through intelligent multi-agent workflows integrating **NLP and LLM-based reasoning**
- Designed and containerized a modular architecture with **RESTful APIs**, voice interview agents (**LiveKit**), and real-time feedback generation, demonstrating advanced skills in AI orchestration, data processing, and end-to-end system deployment using **Docker**.

FAQ Chatbot (Freelance for EastEdge) - LangChain, PineCone, Flask

- Developed an intelligent FAQ chatbot system for a sauna distributor using **Natural Language Processing (NLP)** and **RESTful APIs**, enabling real-time responses to user inquiries and improving customer engagement through AI-driven automation.
- Designed and deployed a full-stack prototype integrating a **Flask backend** with a **Streamlit frontend demo**, demonstrating end-to-end implementation of **conversational AI, data retrieval pipelines from Vector Database, and API integration** for scalable customer support solutions.

Risk-Based Licensing Model – Sci-Kit Learn, FastAPI, Azure

- Built and validated a **Random Forest** risk scoring model using large CSV datasets, with an **LLM-based layer** for feature extraction and interpretation
- Deployed the model on **Microsoft Azure** to enable scalable and reliable inference for regulatory use

Technical Experience

M2M Tech, Surrey – Machine Learning Engineer

July 2023–Current

- Led multiple projects integrating large language models (LLMs) into applications. I utilized frameworks such as LangChain/LangGraph, GCS, and Flask to develop robust endpoints and applied prompt engineering along with retrieval-augmented generation (RAG) to optimize LLM performance
- Designed and implemented machine learning components handling large data to create recommender models, to automate system functionality and user experience.

RemoTrack Technologies Inc., Coquitlam – Programmer

September – January 2021

- Led full-stack development using Node.js, Flutter, and MongoDB, seamlessly integrating user experience with backend systems.
- Developed an automated student sign-in mobile app using Flutter and actively collaborated in team discussions to address challenges.