Gabriel Potvin, P.Eng., M.Sc.

Applied AI Engineer | LLM Systems · Machine Learning · Healthcare & Life Sciences
Montréal, Canada *(open to relocation)* · contact@gabrielpotvin.com · LinkedIn

EXPERIENCE

Cytel Health Inc. | Innovation & Software Engineer
Remote · Oct 2024 – Present

- Owned architecture and hands-on development of an agentic RAG assistant for clinical trial design from **prototype to production** use by **240+ users** from pharma companies; built retrieval across 4,000+ documentation pages and the backend using Python, LangGraph, FastAPI, PostgreSQL, and Azure OpenAI.
- Partnered with **3+ major pharmaceutical clients** and statisticians to translate ambiguous needs into requirements, demo solutions, and iterate on feedback.
- Built an LLM/RAG **evaluation and regression framework** using 100 expert-written Q&A pairs to guide model selection and assess answer quality, latency, and cost.
- Led hands-on development of a client-facing AI-enabled R IDE from prototype to production using TypeScript and Eclipse Theia; used AI coding agents to navigate a large existing codebase, learn the framework, and **integrate 10+ existing services.**

Urgences-santé | AI & Data Science Consultant
Montréal, QC · Aug 2022 – Aug 2024

- Built a CNN-based OCR pipeline extracting structured clinical data from handwritten paramedic reports, **reducing time and costs by approximately 10X**.
- Developed models for emergency-call forecasting, working with EMS teams.
- Applied SHAP and explainable AI to identify factors associated with paramedic wellness and communicated findings through stakeholder-facing visualizations.

Gray Oncology Solutions | Data Science Intern
Montréal, QC · May 2021 – Sep 2021

- Developed a patient scheduling and resource-allocation system using optimization and predictive analytics for cancer centres.

CHUM Research Centre | Research & Machine Learning Intern
Montréal, QC · May 2020 – Sep 2020

- Developed ML and signal-processing pipelines for Raman spectroscopy, including real-time cancer detection during surgery and COVID-19 diagnostic applications.

EDUCATION

McGill University | M.Sc., Digital Health Innovation
Montréal, QC · 2022 – 2024 · Vice-President, Student Society for AI in Medicine (SQIAM)

Polytechnique Montréal | B.Eng., Biomedical Engineering
Montréal, QC · 2018 – 2022 · MRI algorithm, VR applied to health, DL image classification

EPFL | Exchange, Life Sciences Engineering
Lausanne, Switzerland · 2022 · Advanced coursework in AI/ML

SKILLS

Programming: Python, R, SQL, TypeScript, AI coding (Github Copilot, Codex, Claude Code)
AI & ML: LLM, RAG, Agentic Systems, LangGraph, LangChain, DeepAgents, Azure OpenAI, PyTorch, TensorFlow, scikit-learn, SHAP, LLM/RAG Evaluation, Vector Databases, Chroma
Software: FastAPI, REST APIs, PostgreSQL, Azure, Docker, Git, Theia, Airflow, Streamlit

ADDITIONAL

Professional Engineer (P.Eng.), Ordre des ingénieurs du Québec · 2026
Trustworthy and Responsible AI Learning (TRAIL), Mila · 2023
Life Sciences Entrepreneurship Dev. Program (LSEDP), Concordia University · 2023–2024
Languages: Fluent in French and English