

Pouyan Jahangiri

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Patent | Publications

SUMMARY

Principal AI architect and engineering leader with 10+ years building production AI/ML systems and 5+ years leading Analytics, ML, and Platform teams across healthcare and e-commerce. Work across the full stack, from **sensor hardware and IoT telemetry** to **agentic AI** and the MLOps/LLMOps that deploys and governs it at scale. Patent holder and published researcher; equally effective architecting systems and translating them for non-technical stakeholders.

EXPERIENCE

Fenel (*Agentic Personal CRM & Networking Platform*)

Toronto, ON

Vice President, Data & AI

Jan. 2026 – Present

- **Agentic infrastructure:** agent runtime, orchestration layer, and microservices powering an agentic personal CRM & networking platform.
- **Conversational + multimodal AI:** real-time voice agent (STT/TTS) plus a multimodal graph RAG search layer over visual, voice & text, backed by entity-recognition and knowledge-graph services.
- **Visual identification:** weak-supervised service built to operate at scale.

ODAIA Intelligence (*AI platform for commercial Pharma*)

Toronto, ON

Director, Data Science & ML Platform

June 2023 – Jan. 2026

- **Department leadership:** Analytics & Platform Engineering: **20+ engineers across 4 teams**, scaled from one to five; mentored 2 Engineering Managers and 3 Technical Leads.
- **Technical strategy:** owned the ML-ops and GenAI roadmap; partnered with the CTO and VP of Core Engineering on growth, headcount, and budget.
- **Cross-functional delivery:** aligned Product, Sales & Customer Success and worked directly with enterprise customers to ship ML at scale (land-and-expand).

Engineering Manager, ML

May 2022 – June 2023

- **Multi-tenant ML feature store:** SOC2-compliant on EKS + Fargate with Dagster; cut processing time up to **90%** across billions of healthcare records at zero added cost.
- **Voice-based retrieval:** natural-language voice over healthcare databases: voice → SQL → reasoning → spoken answer.
- **Core AI offerings:** scoring, omnichannel orchestration, forecasting & targeting, and an LLM-driven insight pipeline, including a **patented hierarchical time-series forecasting** algorithm; co-led the Snowflake re-platforming.

Cymax Group Technologies

Vancouver, BC

Engineering Manager, Data Science & ML

2019 – May 2022

- **Founded the AI department:** blueprint across Data Science, ML, MLOps & deployment/monitoring; introduced TDD for ML and research partnerships (McMaster, Queen's).
- **ML-Pricing & image search:** deep-learning pricing for ~300K Amazon products (**+9% gross margin**) and an image-search system at scale (~**\$0.5M** savings); deployed Azure-native (AKS, ACR, Blob Storage, Azure Functions).

Senior Data Scientist / ML Engineering Lead

2016 – 2019

- **In-house ML/DL:** built deep-learning algorithms and robust structured/unstructured data pipelines across e-commerce at scale; coached interns and engineers on best practices.

TRIUMF (*Canada's National Lab for Particle & Nuclear Physics*)

Vancouver, BC

Research Engineer

Jan. 2014 – Aug. 2016

- **Beam-fluid modeling:** computational platform for fluid-target behavior under proton-beam irradiation (TRIUMF TR13 cyclotron); uncovered self-sustained oscillations, a key stability risk in medical radio-isotope production.

EDUCATION

University of British Columbia

Ph.D. in Applied Science, Minor in Nuclear Medicine

Vancouver, BC

2014 – 2018

University of British Columbia

M.A.Sc. in Mechanical Engineering, Minor in Computational Fluid Dynamics

Vancouver, BC

2011 – 2013

Amirkabir University of Technology

B.Sc. in Mechanical Engineering

Tehran, Iran

2005 – 2010

PROJECTS

PatientCraft | *Agentic patient identification platform for Pharma*

2025 – Present

- **AI-powered patient identification:** founder & principal architect; turns a plain-language disease description into a scored, ranked list of confirmed and undiagnosed patients in **hours, not months**.
- **Agentic four-engine pipeline:** disease model → cohort compiler → patient journey → patient identification, with an agent-orchestration layer over tool-using LLM services grounded in validated clinical vocabularies for traceable outputs.

Aeris | *IoT sensing to multi-tenant SaaS for gas-leak source localization*

2025 – Present

- **Hardware-to-cloud platform:** proprietary gas/particle sensor devices (~10 Hz multi-species sampling, onboard calibration, wireless telemetry) feeding a multi-tenant cloud SaaS for industrial gas-leak detection.
- **AWS-native backend + solver:** near-real-time streaming ingestion (at-least-once, dedup, replay), tiered raw + time-series stores, and geospatial dashboards; designed the source-localization solver (inverse atmospheric-dispersion) predicting leak coordinates with uncertainty.

TECHNICAL SKILLS

Agentic AI & LLMs

Multi-agent orchestration, tool use & MCP, RAG (incl. graph RAG), prompt & context engineering, conversational AI (STT/TTS), knowledge graphs

Cloud & Infrastructure

AWS (EKS, ECS, ECR, Fargate, Glue, Step Functions, S3), Azure (AKS, ACR, Blob Storage, Functions), Kubernetes, Terraform, Dagster

Practices: Solution & target architecture, statistical modeling & simulation, TDD, algorithm & workflow design

ML & MLOps/LLMOps

TensorFlow, Keras, Scikit-learn, XGBoost; model versioning, CI/CD, monitoring & governance, Weights & Biases

Data & Systems

Python, SQL, PySpark, Snowflake, DuckDB; streaming & batch ingestion, time-series & geospatial, IoT telemetry, RESTful APIs

SPEAKING & THOUGHT LEADERSHIP

Guest Speaker — **Rotman School of Management, University of Toronto:** Invited by Professor Dror Hermel for a discussion on applying ML modeling to real-world e-commerce problems, covering business-problem framing as the foundation of any decision, hypothesis testing, and the rigor of correctly supporting results.

Public Speaking — **Science, Innovation & Technology (SIT) Series:** Presenter in the SIT speaker series hosted by the Vancouver Public Library.

Blog Writing: Writing technical and non-technical blogs in my free time, for example [“The Abstraction Tax”](#).