

Daniel Lofeodo

Montreal, Canada
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Education

- 2024-08 – 2026-05
- M.Sc. Computer Science (Machine Learning)**
MILA, Université de Montréal, Montreal, Canada
 - 4.2/4.3 GPA
- 2026-06 – 2026-07
- Certified Machine Learning Engineer – Associate (Cloud AI Specialization)**
Amazon Web Service
- 2026-05 – 2026-06
- Claude Code in Action**
Anthropic
- 2017-08 – 2021-05
- B.Eng. Mechanical Engineering**
Concordia University, Montreal, Canada
 - Dean's List (2021)

Spotlight Project

- 2026-05 – 2026-07
- AI News Agent – Autonomous Multi-Agent Content Pipeline**
Agentic, event-driven system that researches, curates, and delivers a personalized weekly AI news and research landscape briefing.
 - Orchestrated 6 autonomous Claude-powered agents on GCP across Cloud Run, Pub/Sub, and Firestore for end-to-end automation.
 - Built a Google-auth subscriber website with tiered preferences, live in production for 2 months.
 - Engineered structured LLM tool-calling, concurrency control, and retry/backoff for reliable, scalable scoring and filtering.

Experience

- 2025-03 – 2026-01
- Machine Learning Engineer**
Hydro-Québec, Montreal, Canada
RL and SL AI agents for hydro-dam operation during 1 in 10,000-year floods.
 - Built an end-to-end ML pipeline (data ingestion → feature engineering → training → evaluation) for hydraulic system modeling.
 - Developed a constrained reinforcement learning framework to evaluate hydro-dam behavior under extreme, out-of-distribution (10,000-year) flood scenarios.
 - Designed a layered safety mechanism (hard constraints + dynamic reward shaping) to enforce safety-critical operating limits.
 - Benchmarked state-of-the-art supervised models for multi-step time-series forecasting of hydrological variables.
 - Synthesized research in deep learning for time-series to guide modeling strategy and model selection.
- 2021-06 – 2024-08
- Software Engineer**
Creaform, R&D, Montreal, Canada
Ultra precision 3D scanners and software for engineering.
 - Developed core features for aerospace-grade 3D inspection software, including geometric tolerancing (circularity, cylindricity, flatness) for validating scanned parts against engineering specifications.
 - Built a new industrial pipe inspection product by repurposing internal components, contributing to a high-revenue product line.
 - Led UI/UX development for Creaform.OS, improving performance through profiling and delivering customizable interfaces.
 - Contributed to large-scale C++ codebases in an Agile environment with CI/CD, code reviews, and continuous refactoring.

Technical Skills

- Programming Languages:**
Python, C++, C#, XAML
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- SQL, Java, JavaScript, TypeScript, CSS, HTML, dart
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- XML, Lua
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- AI Frameworks:**
PyTorch, AutoML, scikit-learn, xarray, XGBoost, Pandas, Numpy, stable-baselines3, gymnasium, etc.
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- UI Frameworks:**
Flutter, Three.js, WPF, WinForms, matplotlib, Seaborn
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- Streamlit, Flask
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- Cloud and DevOps:**
Azure, GCP, AWS, GitHub, Databricks, Docker
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- Environments:**
Windows, WSL, Databricks
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- Linux
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- Project management:**
Asana, Jira, Teams
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Soft Skills

- Competent
- Reliable
- Consistent
- Punctual
- Ability to receive feedback with humility
- Positive attitude

Languages

- English (Native), French (Native)
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- Italian (Advanced - C1)
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