

Evan Cureton

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EDUCATION

Honours Computer Science, BSc

Montreal, QC

McGill University

Expected Graduation: May 2027

- **GPA:** 3.77/4.00
- **Minor:** Philosophy
- **Related Coursework:** Applied Machine Learning, Linear Algebra, Data Structures & Algorithms, C++

EXPERIENCE

Software and DevOps Intern

Toronto, ON

Riskfuel Analytics Inc

May 2025 – Sep 2025

- Developed a fullstack application using **FastAPI and React** to index and visualize 100+ servers distributed across multiple data centers, enabling fast querying for specific metrics and **reducing maintenance times by up to 50%**.
- Integrated a **Retrieval-Augmented Generation (RAG) pipeline** into a locally hosted LLM setup (Ollama + OpenWebUI), embedding and indexing over **10,000 source code files** for enhanced semantic codebase search and reasoning.
- Built a **FastAPI + React dashboard** to aggregate and display all GitHub Actions workflows across organizational repositories, with **Prometheus integration** to monitor and visualize metrics for failure frequency and pipeline health.
- Wrote **Ansible** automation to upgrade an entire **Kubernetes cluster** in a rolling, node-safe manner, with built-in safeguards to halt on failure.
- Refactored **Terraform** manifests for **Coder VM** infrastructure, custom mounting SSD space for Docker building, **reducing Docker build times by up to 50%**.

RESEARCH AND ACADEMIC INVOLVEMENT

Responsible AI Lead Researcher

Montreal, QC

McGill AI Society

Oct 2025 – Present

- Developing a framework to **measure and grade synthetically generated safety datasets** for finetuning language models.
- Designing metrics to assess bias, consistency, and representational fairness in LLM-generated data.
- Collaborating weekly with a team of 4 and a Ph.D student in the field to discuss relevant literature.

ML Research Mentee

Montreal, QC

McGill Bridge Mentorship Program

Dec 2024 – May 2025

- Met weekly with a Ph.D. student in ML for guided readings and discussions of key research papers.
- Explored ML topics including neural network interpretability, knowledge distillation, and world-models.

PROJECTS

Gesture Recognition

Dec 2024

- Used an **object oriented** approach to implement the **MediaPipe** library to recognize hand gestures from a live video input.
- Used **OpenCV** to process the frames, adding effects when certain gestures are identified.

Image SuperResolution

Apr 2023

- Collaborated with two other team members to implement and train an **autoencoder** model using **PyTorch**, which successfully learned to de-blur images.
- Wrote Python scripts to process the CelebA Dataset with over **200,000 images**.

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, Node.js, React.js, C++, C, OCaml, FastAPI

DevOps: Kubernetes, Helm, Terraform, Ansible, Docker, Prometheus, GitHub Actions, Coder

ML: PyTorch, NumPy, Scikit-Learn, RAG, LLM integration (Ollama + OpenWebUI)