

Michael Sheroubi

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Summary

Master's student in Artificial Intelligence & Advanced Visual Computing with 5 years of experience in data engineering, analytics, machine learning, and AI research. Proven track record in designing and deploying AI solutions, optimizing data workflows, and leading technical teams.

Skills

Theory: Multimodal Alignment, (Deep) Reinforcement Learning, Flow Matching / Diffusion
Technical: Python, C++, SQL, Torch
Languages: English (Native), Arabic (Fluent), French (Intermediate)
Soft-Skills: People-Oriented, Leadership, Proactive, Curious

Education

MScT Artificial Intelligence & Advanced Visual Computing | École Polytechnique, France 2026

BSc. Honours in Computer Science | University of British Columbia, Canada
Honours Program | Minor in Mathematics | GPA: 3.90/4.33

Professional Experience

Computing Graduate Intern, Lawrence Livermore National Laboratory | *Livermore, United States* 2025

- Developed a novel multimodal alignment architecture extending CLIP beyond two modalities.
- Explored Flow Matching to bridge modality latent spaces.
- Conducted large-scale training experiments and ablation studies on HPC clusters to validate scalability and robustness.
- Synthesized insights from state-of-the-art research papers to guide experimental design and knowledge sharing.
- Worked on two additional projects; resin activation image classification using traditional image processing, and error correction in metrology machines using traditional machine learning.

Machine Learning Engineer, EdgeTunePower | *Vancouver, Canada* 2024

- Explored the use of deep reinforcement learning for real-time optimal power flow on simulated electric grids.
- Built and deployed an anomaly detection system for real-time grid monitoring.
- Optimized trained models for embedded systems deployment using ONNX Runtime.

Data Analyst, Asurion | *Vancouver, Canada* 2023

- Fine-tuned a large language model (LLM) to detect ineligible product prompts.
- Designed an LLM-driven clustering algorithm using tokenization and cosine similarity, reducing Digital Mapping team workload by 88%.

Data Analyst & Support, Clearmind International | *Vancouver, Canada* 2020 – 2023

- Built a Python ETL pipeline to migrate 7+ years of historical data from legacy systems & CSVs to a cloud-based solution.
- Normalized transcript data, reducing query run-time by 75% while increasing accuracy.
- Streamlined the registration process by modeling data flow and eliminating inefficiencies, reducing operational costs by 23%.

Data Engineer, Trellis x UBC (Capstone) | *Kelowna, Canada* 2019 – 2020

- Designed and implemented an AWS Redshift data warehouse combining data from 5 disparate sources.
- Created Python-based ETL pipelines to batch-migrate data from MongoDB to the data warehouse.

Other

Paper - **Sheroubi et al.**, Untangled mutlimodal latent alignment through learnable anchors *In Preparation*
Paper - **Sheroubi et al.**, Unsupervised Contrastive Feature Sharpening for OOD Detection *In Preparation*
Hackathon - **1st Place** - Mistral x HuggingFace Robotics 2025
Hackathon - **Finalist** - Mistral Game Jam 2025