MICHAEL SHEROUBI
devsheroubi@gmail.com | msheroubi.gtihub.io | [GitHub/LinkedIn](#)

Master Student. 5 Years Experience with Data and AI.

EDUCATION

MScT Artificial Intelligence & Advanced Visual Computing *Current*
ÉCOLE POLYTECHNIQUE - France
- Expected graduation March 2026

BSc. Honours in Computer Science
University of British Columbia - Canada
- Honours Program | Minor in Mathematics / Data Science* | 3.90 GPA on 4.33 scale

Certifications: CompTIA Security+, Neo4j Certified Professional

PROFESSIONAL EXPERIENCE

Machine Learning Engineer. *EdgeTunePower* 2024
AI Research
- Designed, built, and optimized deep reinforcement learning models for real-time optimal power flow on a simulated electric grid.
- Trained a machine learning model for real-time anomaly detection in a simulated electric grid environment.
- Established ETL pipelines to connect data from industrial controllers to cloud platforms.
- Deployed models on embedded systems using ONNX Runtime for real-time edge device inference.

Data Analyst. *Asurion* 2023
- Fine-tuned a large language model for zero-shot product classification, leading to a 13% increase in accuracy from the existing approach.
- Developed a clustering algorithm leveraging LLM tokenization and cosine similarity, reducing Digital Mapping team workload by 88% per batch.
- Automated QA processes by designing testing scripts to cross-reference data across multiple batches.
- Collaborated on the development of a machine learning classifier as part of a team project.

Data Analyst & Support. *Clearmind International* 2020 - 2023
- Built an ETL solution using Python to migrate over 7 years of historical data from legacy systems and CSV files to a cloud-based platform.
- Normalized transcript data, improving query performance by over 75% and increasing search result accuracy.
- Streamlined the registration process by modeling data flow and eliminating inefficiencies, reducing operational costs by 23%

Data Engineer. *Trellis* 2019 - 2020
Warehouse Engineer / Team Lead
- Led the design and implementation of a data warehouse solution using AWS Redshift, integrating data from five disparate sources for analysis.
- Developed Python-based ETL processes to batch migrate data from MongoDB to the data warehouse.
- Optimized complex SQL procedures for use in the company's internal dashboard.

SKILLS

Technical Languages: Python, C++, JavaScript, SQL, Cypher
Platforms & Services: AWS SageMaker, IoT SiteWise, Redshift | Azure ML, Event Hubs, Stream Analytics | MongoDB
Libraries & Tools: PyTorch, OpenCV, Langchain, Scikit-learn, Pandas, Postgres, Gym
Theory: Reinforcement Learning, Machine Learning, Signal Processing, Natural Language Processing, Optimization
Languages: English (Fluent), Arabic (Fluent), French (Intermediate)
Soft Skills: People-Oriented, Leadership, Proactive, Curious