

RAYYAN OUMILIL

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PROFILE

Passionate Computer Science student at Université de Montréal, specializing in software engineering and artificial intelligence. Experienced in full-stack development and machine learning. Active participant in AI hackathons and research projects, combining technical rigor with creativity to build impactful solutions.

EDUCATION

Université de Montréal
B.Sc. in Computer Science

Montreal, Canada
2024 – Present

- UdeM AI — Artificial Intelligence Student Club
- Calculum — Mathematics & Problem-Solving Student Club
- CodeML Hackathon — PolyAI ML & AI Challenge (Oct. 2025)
- Mil'HaQ Hackathon — Quantum AI Hackathon organized by Mila (Nov. 2025, Planned)
- CodeJam Hackathon — 15th Edition | McGill University (Nov. 2025, planned)

Lycée Franco-Qatarien Voltaire
French Baccalaureate: Mathematics, Physics-Chemistry, Digital Sciences

Doha, Qatar
2021 – 2024

EXPERIENCE

Adven Consulting
Full-Stack Mobile Developer Intern

Sherbrooke, QC, Canada
Sep 2025 – Present

- Developed a ride-hailing mobile app connecting drivers and clients, in collaboration with a team of interns.
- Implemented the front end with Flutter and the back end with Node.js, Express, and Supabase.
- Added real-time geolocation, in-app chat, authentication flows, and push notifications.
- Worked with Agile/Scrum methodology, using GitHub Projects for task tracking and daily collaboration.

PROJECTS

FlexiShop – Fullstack E-Commerce App [GitHub] | FastAPI, React, PostgreSQL, Tailwind

July 2025

- Developed a complete e-commerce application with a FastAPI backend and a React + TypeScript frontend.
- Implemented product browsing, cart, checkout, JWT authentication, and order history.
- Styled with Tailwind + ShadCN UI; integrated Stripe and planned MinIO for file storage.

MaVille – Roadwork Management App [GitHub] | Java, UML, MySQL

Aug 2025

- Developed a Java CLI application to coordinate roadworks between residents, contractors, and the municipality.
- Designed with object-oriented principles using UML diagrams and a MySQL database, tested on 50+ simulated reports with 30% faster processing time.
- Collaborated in a team of 4 to develop a Java CLI application coordinating roadworks.

AI-Powered PDF Q&A Assistant [GitHub] | LangChain, Python, Streamlit, FAISS, LLMs

June 2025

- Built a Q&A assistant on PDF documents using Retrieval-Augmented Generation (RAG).
- Implemented vector search with FAISS and integrated multiple LLMs.
- Developed an interactive Streamlit interface with multi-document support.

Oil Price Forecasting with News Sentiment [GitHub] | NLP, FinBERT, XGBoost, Scikit-learn

Oct 2025

- Built an end-to-end machine learning pipeline to forecast oil and gas prices using financial news sentiment.
- Scrapped and processed daily financial headlines related to oil and natural gas markets.
- Applied FinBERT, a financial NLP model, to extract sentiment scores and engineered features with Scikit-learn.
- Trained an XGBoost model on 23 years of data to capture the relationship between sentiment and price movement.

Emotion Detection System [GitHub] | PyTorch, OpenCV, NumPy, Python

Oct 2025

- Developed a real-time facial emotion detection system using Convolutional Neural Networks (CNNs).
- Implemented image preprocessing, data augmentation, and model training on the FER2013 dataset with 7 emotions.
- Built a GUI-based live inference application using OpenCV for webcam-based emotion recognition.
- Achieved robust classification accuracy through optimized CNN architecture and performance visualization metrics.

TECHNICAL SKILLS

Languages: Java, Python, C++, HTML/CSS, JavaScript, TypeScript, SQL, Bash/Shell

Tools: Git, VS Code, IntelliJ, Jupyter, Figma, Firebase, Supabase

Databases: MySQL, PostgreSQL, MongoDB, FAISS

Frameworks & Libraries: React, Flutter, FastAPI, Node.js, Express, Spring Boot, Scikit-Learn, PyTorch, TensorFlow, Hugging Face Transformers, LangChain, Pandas, Numpy, Matplotlib

Artificial Intelligence: LLMs, RAG, Prompt Engineering, NLP, MLOps

Systems & DevOps: Linux, Docker, Azure, GitHub Actions, GitLab CI

Methodologies: Unit Testing, Agile/Scrum, CI/CD

CERTIFICATIONS

- Microsoft Azure Fundamentals (AZ-900)
- IBM Full Stack Software Developer Professional Certificate
- NVIDIA-Certified Generative AI LLMs (Exam Prep – Whizlabs)
- Oracle OCI Architect Associate
- Oracle OCI Generative AI Professional
- Oracle OCI AI Foundations Associate

LANGUAGES

English: Fluent

French: Fluent

Spanish: Intermediate

Arabic: Fluent