

RAYYAN OUMILIL

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EDUCATION

Université de Montréal

B.Sc. in Computer Science

Montreal, Canada

2024 – Present

- UdeM AI — Artificial Intelligence Student Club, Calculum — Mathematics & Problem-Solving Club

EXPERIENCE

Adven Consulting

Full-Stack Mobile Developer Intern

Sherbrooke, QC, Canada

Sep 2025 – Present

- Contributed to RoutIA, a Flutter platform for agricultural transport, building 6+ core features including authentication, workflows, real-time chat, GPS routing, and push notifications.
- Collaborated with a team of four interns using GitHub Projects and Agile/Scrum practices, participating in debugging and automated testing covering 80%+ of critical workflows.

Wayfair

AI Automation Extern

Remote

Oct 2025 – Dec 2025

- Built 3+ multi-agent AI automation workflows using n8n, Gemini, and JavaScript, integrated into a Supabase Market Intelligence Dashboard for centralized monitoring.
- Developed Trend and Competitor agents aggregating 50+ RSS feeds, Google Search, and Amazon data to surface market signals and competitive insights, reducing research time by 60%.

PROJECTS

CustoFlow — Multi-Agent Customer Support System [GitHub] | FastAPI, Next.js, Google ADK, Gemini, Supabase

- Built a multi-agent system automating 80%+ of queries, reducing response time from 2-4 hours to <10 seconds.
- Developed five specialized agents using Google ADK (routing, FAQ, orders, sentiment, escalation) with A2A communication, long-term memory with semantic search (FAISS), and automated ticketing workflows (LRO).

MaVille — Roadwork Management Platform [GitHub] | Spring Boot, Next.js, PostgreSQL, WebSocket

- Developed a full-stack municipal infrastructure platform with Spring Boot and Next.js enabling citizens to report roadwork issues, manage projects, and subscribe to updates with real-time WebSocket notifications.
- Implemented PostgreSQL database, secure authentication, file uploads, comment threads, and admin dashboards.

ReguAI — Regulatory Intelligence Assistant [GitHub] | Python, Bedrock, LangChain, LegalBERT, Comprehend

- Built a GenAI-powered web application analyzing regulatory impact on S&P 500 portfolios, generating trading recommendations from 500 firms and 7+ global regulations. Developed for PolyFinances Datathon 2025 (Finalist).
- Implemented a retrieval pipeline with LangChain, document extraction using Bedrock and Textract, and interactive Streamlit dashboard for regulatory analysis.

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

- Developed a real-time facial emotion detection system using CNNs trained on FER2013 dataset with 7 emotions, and built a GUI application using OpenCV for webcam emotion recognition with optimized CNN architecture.

BuyBuddy — AI Shopping Assistant [GitHub] | FastAPI, React, LangGraph, SerperDev

- Built an AI-powered shopping assistant with agents for query understanding, product research, and price comparison, coordinated through a LangGraph workflow with multi-LLM provider support.

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, TypeScript, SQL

Web & Full-Stack Development: React, Next.js, Flutter, Node.js, FastAPI, Spring Boot

AI & Machine Learning: LLMs, RAG pipelines, LangChain, LangGraph, CrewAI, Google ADK, HuggingFace, NLP, Scikit-learn, PyTorch, TensorFlow, Pandas, NumPy, Matplotlib, OpenCV

Databases: MySQL, PostgreSQL, MongoDB, Redis, Firebase, Supabase, FAISS

DevOps & Cloud Systems: Docker, Git, GitHub Actions, Azure, Google Cloud, AWS, CI/CD pipelines

CERTIFICATIONS

- IBM Full Stack Software Developer Professional Certificate
- NVIDIA Certified — Generative AI LLMs
- Oracle OCI: Architect Associate, Generative AI Professional, AI Foundations Associate