

# Louqman MASBAHI

Full-Stack Developer & DevOps

📍 Montreal

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*Full-stack developer and DevOps engineer, holding a Bachelor's in Software Engineering (Canada) as well as a DUT in Computer Science (France). Hands-on experience in applied AI (RAG/LLM, Python), web platforms (TypeScript/JS/PHP), and industrial software (C++/C#), spanning full-stack development, microservices, and DevOps. Fluent in English and French, with strong communication skills and a practical approach to delivering reliable solutions.*

## Skills

- **AI & LLM:** RAG, LangChain, Ollama, embeddings, pgvector, ChromaDB, Claude Code, Cursor, Codex, Copilot.
- **Development:** Python, TypeScript/JavaScript, PHP, C++, C#, Java, SQL, Bash; Node.js, FastAPI, Flask, React.
- **Architecture & APIs:** Microservices, REST APIs, API Gateway, DDD, Event Sourcing, Monorepo, Prisma, TSOA.
- **DevOps & Cloud:** Docker, Kubernetes, GitHub Actions, Jenkins, GitLab CI/CD, Nginx, Linux.
- **Data & Tools:** PostgreSQL, MongoDB, Redis; Grafana, Git, GitHub, GitLab, Jira, Postman, Swagger/OpenAPI.
- **Testing & Quality:** Jest, JUnit, PyTest, Playwright; unit & integration testing, code review.
- **Languages:** French (native), English (fluent).

## Professional Experience

### Full-Stack Developer | Solutions ISIOS Inc.

Montreal | January 2023 – Present

*Ongoing engagement at ISIOS Inc., a Montreal-based publisher of a PMI-inspired project and portfolio management SaaS platform, used by organizations such as Desjardins, Télé-Québec, and Port de Québec to manage over 2,600 active projects (\$817M CAD): part-time developer alongside my studies starting January 2023, including two internships (full-stack development, Sept.–Dec. 2023; business intelligence, Jan.–Apr. 2025), then full-time developer since January 2026 after graduating.*

- Develop and maintain the front-end (JS/TS) and back-end (PHP) of the platform.
- Raise test coverage from 30% to 75%, reducing regressions in production.
- Automate UI testing (Playwright), cutting manual validation time by 40%.
- BI internship: CronJob workflow consolidating 3 sources into 4 Grafana dashboards.
- Standardize the back-end to reduce technical debt and maintenance overhead.
- Collaborate with 6 developers in Agile/Scrum and participate in code reviews.

### Software Developer (C++/C#) | Evident

Montreal | September 2022 – December 2022

*Designed and delivered a 3D debugging tool for Omniscan's ultrasonic inspection platform, enabling validation of critical industrial components.*

- Developed a C# 3D visualization tool for probes, ultrasound beams, and inspected parts.
- Implemented C++ spatial data extraction and ray generation, ensuring 100% positioning accuracy.
- Achieved 90% code coverage through comprehensive unit testing.

## Projects

### Research Project Visualization Platform | City of Montreal (ÉTS)

2025

*Final-year capstone project for the City of Montreal: design a platform allowing the public, researchers, and administrators to catalog and query university research projects funded by the City in natural language, previously untracked in any centralized system.*

- Design a microservices architecture (React, Express.js, RAG Python, Docker Compose).
- Develop a hybrid RAG search engine (FastAPI/LangChain, vector + BM25).
- Integrate a local LLM (Ollama) and pgvector, with no external API dependency.
- Build a documented REST API (TSOA/Swagger) and a React/Supabase interface.
- Deliver 19 of 23 use cases (SRS) across 2 milestones, with complete documentation.

### Multi-Store System | Microservices Architecture | Academic Project

2025

*Academic project transforming a monolithic multi-store management system into a microservices architecture (FastAPI, PostgreSQL, Docker) with an orchestrated Saga pattern for distributed transactions, an API Gateway, and an observability stack (Kong, Prometheus, Grafana). Performance validated with K6 load testing: p95 latency below 105 ms, 99.98% availability, and throughput of 1,200 requests per second under a load of 300 concurrent users.*

## Education

**Bachelor's Degree in Software Engineering** | École de technologie supérieure, Montreal | 2021 – 2025

**University Diploma in Technology (DUT) in Computer Science** | Université Toulouse II, France | 2019 – 2021

**Agents Course** | Hugging Face, Online | ongoing