

Frédéric-Alexandre Lefebvre

+1 514-909-1337 | me@fredericlefebvre.dev | linkedin.com/in/fal- | github.com/fewdw | Montreal, QC | Canadian citizen

EXPERIENCE

- Desjardins** – *Canada's largest financial cooperative: 10M+ members, \$510B+ in assets* Montreal, QC
Software Engineer May 2025 – Present
- Built **2 Java 21 / Spring Boot microservices** as the sole developer, replacing a legacy monolith's insurance quote and policy workflows and cutting end-to-end processing time by **40%**.
 - Made the busiest **REST API** endpoints **45% faster** (p95 latency) by rewriting 20+ **JPA/Hibernate** queries to eliminate N+1 database calls and adding **Oracle** indexes through **Flyway** migrations.
 - Made a nightly regulatory purge job **5× faster** (10 min to under 2) with **multithreaded Spring Batch** workers.
 - Restored a client-outreach data feed by tracing a production bug that silently dropped marketing-consent messages in the **event-driven Apache Camel / IBM MQ** routes I own, and shipping the fix with regression tests.
 - Migrated CI/CD from **Jenkins** to **GitHub Actions** for faster deploys, keeping test coverage above **80% (JUnit)**.
- Software Engineer Intern* Feb 2023 – May 2023
- Built and deployed a **Spring Boot REST API** that tells fraud-prevention agents the strongest way to verify each caller's identity, for a **200-agent** call center.
 - Raised test coverage to **80%+** across 4 **microservices** with **JUnit** and **Mockito**, and added **SonarQube** quality gates to CI to block bugs and security issues before merge.
- Accenture** Montreal, QC
Software Engineer Jul 2024 – May 2025
- Cut duplicate backend **API calls by 50%** on a logistics platform used daily by 1,500+ employees by adding client-side request batching and response caching in **JavaScript**.
 - Built 15+ production **SAP Fiori** screens and sped up page loads by switching blocking calls to **async** lazy loading.

SKILLS

Languages: Java, C, C++, Go, TypeScript, JavaScript, SQL
Key Skills: Microservices, Distributed Systems, Event-Driven Architecture, Concurrency & Multithreading, REST APIs
Frameworks: Spring Boot, Spring Batch, JPA/Hibernate, JUnit, Mockito, Node.js, React
Data & Messaging: Kafka, RabbitMQ, IBM MQ, Apache Camel, Oracle, PostgreSQL, SQLite, Flyway
Cloud & DevOps: Docker, GitHub Actions, Jenkins, Linux, Prometheus, Grafana, Splunk, SonarQube
AI Engineering: Claude Code, OpenAI Codex, GitHub Copilot, multi-agent coding workflows, LLM APIs

PROJECTS

- UFC.sh** – live UFC stats platform | *TypeScript, Node.js, React, SQLite, Docker* | [GitHub](#) Aug 2026 – Present
- Built and run a full-stack stats site solo that handled **295K+ requests** from **32 countries** in 2 weeks, with a **0.04% server error rate** and zero-downtime deploys via **GitHub Actions**.
 - Built a data pipeline that merges **8 sources** into 9,000+ fights and 107K ranking records, matching each fighter across sites and rejecting inconsistent stats instead of storing bad data.
 - Scaled a single 4-vCPU server to **3,600 requests/sec at p99 under 100 ms** (cached, load-tested) using request coalescing, an in-memory cache, and a bounded **worker-thread pool** that sheds overload instead of crashing.
- Multithreaded File Server & Proxy Cache** – Georgia Tech | *C, pthreads, POSIX IPC, Linux* Fall 2026
- Built a **multithreaded** file server in **C** with a **pthreads** thread pool, mutexes, and condition variables, plus a caching proxy that talks to a separate cache process over **shared-memory IPC**.

EDUCATION

Georgia Institute of Technology – *M.S. Computer Science (Computing Systems)* Expected 2028
Western Governors University – *B.S. Software Engineering* Jul 2024

ACHIEVEMENTS & CERTIFICATIONS

- Québec Open Boxing Champion (2024)** – amateur title, won while finishing a full-time B.S.
- Boxing Coach & Mentor (2021–2024)** – coached and cornered competitive amateur boxers at sanctioned events.
- AWS Certified Cloud Practitioner** – Amazon Web Services (2024).