

RIMA NAFOUGUI

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EDUCATION

University of Montreal

B.Sc. in Computer Science

- Accelerated path (15 credits exempted). Coursework: Discrete Structures, Computer Architecture, Linear Algebra

Montreal, QC

Aug. 2026 – Dec. 2028 (expected)

Ahuntsic College

DEC in Computer Science Technology (Web and Mobile)

Montreal, QC

May 2026

EXPERIENCE

Director of Technology (Volunteer)

Careforall.org

- Built a full-stack member portal (**Next.js 16**, **TypeScript**, **Supabase**, **NextAuth v5**) with role-based access control, a service-hour submission and approval workflow, and impact dashboards with live metrics
- Owned production infrastructure end-to-end: migrated a legacy **WordPress** site to a modern stack, hardened site security, and stood up the organization's first SEO and email-deliverability pipeline

Mar. – Aug. 2026

Montreal, QC

Software Developer, Contractor

Diligence Wealth Management – Manulife Wealth

- Automated prospect data entry with **Python** pipelines, cutting manual effort from ~10 hours/week to ~15 minutes/week
- Developed and deployed **Chrome extensions** firm-wide, streamlining daily data-entry workflows

Mar. – May 2026

Montreal, QC

Programming Tutor

Ahuntsic College

- 1 of 4 students selected to tutor peers; taught **data structures and algorithms** (Big-O, recursion) to 15+ students in **Java**, **Python**, and **SQL**, raising average grades 10–15%

May 2025 – May 2026

Montreal, QC

PROJECTS

RCapsule – AI Wardrobe Platform | *Next.js, TypeScript, PostgreSQL, AWS* | GitHub | Live Sept. 2025 – Present

- Shipped a full-stack platform (**Next.js 16**, **React 19**, strict **TypeScript**, **PostgreSQL** with Row-Level Security): 60 API routes, **Stripe** billing with signed webhooks, **AWS Lambda** image processing, and AI outfit recommendations (**OpenAI**, with a switchable **Anthropic** provider)
- Hardened the API with **Zod** validation, ownership checks, and tiered **Redis** rate limiting; wrote 137 tests across 14 suites (**Vitest**, **MSW**, 70%/60% coverage thresholds) enforced by a **GitHub Actions** CI pipeline (lint, typecheck, test, build)

ArXiv RAG Research Assistant | *Python, pgvector, OpenAI* | GitHub | Demo

Jan. 2026 – Present

- Built an **ETL** pipeline on **GitHub Actions** (daily cron) that fetches, chunks, embeds, and idempotently ingests ArXiv papers into **Supabase pgvector**; 1,200+ papers indexed
- Implemented **hybrid retrieval** fusing pgvector cosine similarity with full-text search via **reciprocal rank fusion**, plus a **gpt-4o-mini** query router; validated output quality with a 20-question evaluation harness reporting hit rate@5 and MRR

ExpenseFlow – Personal Finance REST API | *Java 21, Spring Boot 3, PostgreSQL* | GitHub

Feb. 2026

- Built a **Spring Boot 3** REST API with **JWT** auth, pagination, filtering, and monthly summaries; 40+ unit and integration tests (**JUnit 5**, **Mockito**, **MockMvc**) run in **GitHub Actions** CI; containerized with **Docker** and deployed to **Railway**

ACTIVITIES

Calculus – Competitive Programming Club, University of Montreal

Sept. 2026 – Present

- Qualified for the 2026 **ICPC North America Qualifier**; practice **C++** and **Python** on **Kattis** and **C++** on **Codeforces**

TECHNICAL SKILLS

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

AI & Data: RAG, embeddings, hybrid search (pgvector, RRF), OpenAI/Anthropic APIs, ETL, PostgreSQL

Frameworks & Testing: React, Next.js, Spring Boot, Node.js, JUnit 5, Mockito, Vitest, MSW

Systems & Tools: REST APIs, Redis, AWS (Lambda, ECR), Docker, CI/CD, GitHub Actions, Git, Linux

Spoken Languages: French (native), Arabic (native), English (professional)