

# Amir Ghadimi

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## EDUCATION

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**Concordia University** Sep 2026 – Expected 2030  
*Bachelor of Engineering, Software Engineering* Montreal, QC

**Champlain College Saint-Lambert** Aug 2023 – Jun 2026  
*DEC, Computer Science Technology (420.B0) | 80%+ avg | Honour Roll (Fall 2025)* Saint-Lambert, QC

- **Relevant Coursework:** Object-Oriented Programming (Java), Database Design & Administration, Web Services & Distributed Computing, Operating Systems (Linux), Networking & Security, Mobile Development (iOS & Android), Azure Cloud & ASP.NET.

## EXPERIENCE

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**AI Research Intern** Mar 2026 – May 2026  
*Polytechnique Montréal, SWAT Lab (Prof. Foutse Khomh & Dr. Housseem Ben Braiek)* Montreal, QC

- Contributing to **VerifIA**, an open-source domain-aware ML verification framework; added a **Tavily web-search RAG step** that builds feature-aware queries from schema constraints and premises to ground LLM-generated YAML domain specs.
- Designed 16 edit-policy guardrails preventing LLM-proposed domain revisions from silently weakening verification criteria; benchmarked verify-diagnose-repair end-to-end on 7 of 9 TabArena datasets against scikit-learn and AutoGluon models.
- Iterated on 27 prompts with few-shot exemplars and a contradiction-review evaluation stage to catch inconsistent LLM outputs.

**Peer Tutor, Programming Fundamentals** Sep 2025 – Nov 2025  
*Champlain College Saint-Lambert* Saint-Lambert, QC

- Delivered 20+ hours of programming tutoring to a class of ~20 first-year Computer Science students, covering debugging strategies, version control, and problem decomposition.

## PROJECTS

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**TimmyTutorials: AI Coding Tutor** | *OpenAI API, Deepgram, LLMs* | [Devpost](#) Nov 2025

- **Won “Best Overall Project”** at Champlain Code Quest Hackathon (10-hour build, 4-person team): AI-powered coding tutor that explains code conversationally, generates complete multi-file projects, and supports voice input/output via Deepgram.

**CourtierPro: Bilingual Broker-Client Platform** | *Spring Boot, React* | [GitHub](#) Nov 2025 – Feb 2026

- Owned transactions domain on a 4-person team (111 commits) building a bilingual (EN/FR) brokerage platform for Nabizada Courtier Inc.: designed 12 JPA entities + dual buyer/seller 6-stage lifecycles, built the full REST surface with role-based access, a document-attachment pipeline with condition-linked metadata, and integrations with Notifications, Appointments, and an audit Timeline service.

**Pet Clinic: Full-Stack Microservices** | *Spring Boot, React, Docker* | [GitHub](#) Sep – Nov 2025

- Shipped the customer bill-payment flow in a Spring Boot microservice (1 of 5): authored two REST endpoints (filter-by-status, pay-bill) with JWT-based auth and rewrote the PDF receipt generator, backed by unit + integration tests across 5 test classes and consumed by 3 React components in the admin UI.

**Personal Portfolio** | *Django, Tailwind CSS, Docker, Redis* | [Live Site](#) Jan 2026

- Bilingual (EN/FR) portfolio built with Django and Tailwind, deployed in Docker with Gunicorn and Redis caching; features a custom admin dashboard and validation/spam-protected contact forms.

## TECHNICAL SKILLS

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**Languages:** Java, Python, JavaScript, C#, SQL, Bash, Kotlin, Swift, HTML/CSS

**Frameworks & Libraries:** Spring Boot, React, Django, .NET, Tailwind CSS

**Databases & Infra:** PostgreSQL, MySQL, MongoDB, Redis, Docker, Azure, Git, Linux, GitHub Actions

**AI / ML:** Prompt Engineering, RAG, LLM Evaluation, LangGraph, OpenAI API, Tavily, scikit-learn, pytest, ML Testing & Benchmarking

**Spoken Languages:** English, French, Persian (all fluent).