

Adamo Orsini

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Skills

Programming Languages Python, TypeScript, JavaScript, HTML, CSS, Java, C++

Frameworks & Libraries PyTorch, Numpy, Next.js, React, Astro, Express

Languages English (Native), French (Intermediate)

Education

Doctor of Philosophy in Computer Science

Concordia University

Montreal, Canada

Jan 2026 - May 2029 (Expected)

- 4.3 GPA
- Research Topics: Mobile GUI Agents, Computer Vision

Master of Science in Computer Science

Concordia University

Montreal, Canada

Sep 2024 - Dec 2025

- 4.3 GPA
- NSERC GCS Master's Recipient
- Relevant Courses: Representation Learning, Advanced Robotic Vision, Robust and Federated Learning

Bachelor of Engineering in Software Engineering

Concordia University

Montreal, Canada

Sep 2020 - May 2024

- 3.92 GPA
- Dean's List (2020 - 2024)
- Graduated with Distinction
- Member of the Institute for Co-operative Education

DEC in Sciences

John Abbott College

Sainte-Anne-de-Bellevue, Canada

Sep 2018 - Jun 2020

- Honour Roll Student (2018 - 2020)
- Graduated in the top 10% of the Sciences program

Experience

Teaching Assistant

Concordia University

Montreal, Canada

Sep 2025 - Present

- Prepared lesson plan, slides, and practice questions for over 40 students.
- Taught C++ fundamentals, object-oriented programming, and data structures.
- Updated legacy course content to ensure students keep up with modern standards.

Chief Technology Officer

SoftGolf

Remote

Jan 2024 - Present

- Led re-architecture and re-development of the SoftGolf platform into a modern full-stack web application.
- Collaborate regularly with CEOs and customers to continuously deliver new requirements.
- Developed responsive web application using Next.js, tRPC, Prisma, and PlanetScale with scaling and SEO at the forefront.

Machine Learning Consultant

MECP

Montreal, Canada

Jan 2024 - Apr 2024

- Collaborated with MECP via Concordia University to develop two scalable algorithms for matching MECP products with competitor products to ensure competitive price points.
- Implemented semantic matching using the SBERT Large Language Model and similarity search using fuzzy matching to find matching products between multiple product databases.
- Utilized Spark to query and manipulate data from a MySQL database of products retrieved via web scraping and product inventory APIs.

Software Engineer Intern

Laboratory of Energy Policy

Ljubljana, Slovenia

May 2023 - Aug 2023

- Developed PV solar panel investment tool usable by energy communities to estimate CO2 emissions, energy cost and savings over time, and their optimal PV configuration.
- Planned, presented, and designed scalable full-stack web application architecture for a new project.
- Supported extension of application data by planning a customizable API for use by new country representatives.

Projects

CommunityGrid

Project Management, Next.js, Docker, FastAPI, TypeScript, Cypress

Laboratory of Energy Policy

Sep 2023 - Apr 2024

- Developed application to manage energy capacity congestion in low voltage networks by scheduling, prioritizing, and predicting electric vehicle charging bookings.
- Managed 8-month long project lifecycle via task allocation, stakeholder meetings and progress reports in an Agile environment.
- Deployed multi-container Dockerized application using Next.js, tRPC, shadcn/ui, Prisma, FastAPI on DigitalOcean.

Handle

Tensorflow.js, React, Vite

Concordia University

Mar 2023 - Apr 2023

- Designed interactive ASL Wordle game to promote ASL learning and communication.
- Used Tensorflow.js hand-tracking model to track hand joint movements.
- Surveyed test population of inexperienced ASL users, resulting in a 70% accuracy improvement after using our app.

Interlinked

Project Management, Firebase, Next.js, TypeScript

Concordia University

Jan 2023 - Apr 2023

- Led frontend development by recording React and Next.js tutorials for teammates, pair programming, and showing clear communication.
- Developed LinkedIn clone designed for IT and tech professionals using React, Next.js, Cypress, Firebase, and Vercel.
- Presented as one of the best projects in the class thanks to successful task allocation, task dependency mapping, and implementation scheduling.

CrossCast

Next.js, TypeScript, Project Planning

ConUHacks VII

Jan 2023

- Designed centralized application for cross-platform company updates and news across various social media platforms.
- Directed development of full-stack Next.js and TypeScript web application.
- Won Mirego sponsorship challenge at ConUHacks VII.

GunHead (Video Game)

Unity, C#

Concordia Game Jam

Oct 2022

- Created 2D side-scrolling platformer using C# in Unity in 48 hours.
- Led the development team and storyboarding process.
- Submitted to the 2022 Concordia Game Jam.

Theme Song Discord Bot

Python, Discord.py, MongoDB

Personal

Oct 2021 - Nov 2021

- Designed Discord bot to play a unique theme song for each user.
- Handled asynchronous commands and events for over 1200 users.
- Developed bot using Discord.py API in Python. It is hosted by Heroku and uses a MongoDB database.

Competitions

Jan 2023 **Mirego Sponsor Challenge Winner**, ConUHacks VII

Concordia University

Feb 2022 **Best National Team**, ENCOMM 2022

ENGCOMM

Nov 2021 **3rd Place**, Englympics: Programming

Concordia University

Oct 2021 **1st Place Winner**, ENCOMM x Concordia

Concordia University

Mar 2021 **Participant**, Genetec Challenge

Genetec Inc.

Awards & Distinctions

Jan 2026 **Doctoral Graduate Fellowship**

Concordia University

Jan 2026 **Jang-Hwan Kwon Graduate Award in Computer Science**

Concordia University

May 2025 **NSERC Canada Graduate Scholarship (Master's)**

NSERC

Feb 2025 **Italian Association Bursary**

Associazione Italo-Canadese Del West Island

Aug 2023 **Quebec Mobility Bursary**

Ministère de l'Éducation et de l'Enseignement supérieur

Jan 2021 **Bursary for Excellence in Engineering**

Concordia University