

# Adamo Orsini

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## Skills

**Programming Languages** TypeScript, JavaScript, HTML, CSS, Python, Java, C++  
**Frameworks & Libraries** Next.js, React, Astro, PyTorch, scikit-learn, Express, Firebase, WordPress  
**Languages** English (Native), French (Intermediate)

## Education

### Concordia University

B. ENG. IN SOFTWARE ENGINEERING. CO-OP.

- 3.94 GPA
- Dean's List (2020 - 2023)
- Member of the Institute for Co-operative Education

Montreal, Canada

Sept 2020 - May 2024 (Expected)

### John Abbott College

D.E.C. IN SCIENCES

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

Sainte-Anne-de-Bellevue, Canada

Sept 2018 - June 2020

## Experience

### Chief Technology Officer

SOFTGOLF

- 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.

Remote

Jan 2024 - Present

### Software Engineer Intern

LABORATORY OF ENERGY POLICY

- 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.
- Developed PV solar panel investment tool usable by consumers or energy communities to estimate CO2 emissions, energy cost and savings over time, and the optimal PV configuration.

Ljubljana, Slovenia

May - Aug 2023

### Software Engineer Intern

PTC INC.

- Spearheaded new company initiative in the Montreal office, paving the way for future development of reusable components.
- Documented, demoed, and presented project work as reference for future web component development.
- Collaborated in a scrum team with daily meetings for task grooming and allocation.

Montreal, Canada

June - Aug 2022

### Intelligent Mobility Solutions Developer Intern

GENETEC INC.

- Increased modularity, flexibility, and speed of software deployment using custom Azure Pipelines YAML template.
- Developed C# command line application with numerous file manipulation commands.
- Implemented YAML template in deployment pipelines of production services and plugins.

Montreal, Canada

Sept - Dec 2021

### Academic Tutor

SELF-EMPLOYED

- Customized tutoring for Mechanics, Electricity & Magnetism, Calculus I and Calculus II CÉGEP courses.
- Elevated student performance to 90%+ grade on midterms.

Montreal, Canada

Sept 2020 - Sept 2021

### Customer Experience Representative

INDIGO BOOKS AND MUSIC INC.

- Performed cash opening and closing, POS, inventory management, sales, restocking, and customer service.
- Drove sales in the electronics department using knowledge of current product trends including Fitbit and Kobo.
- Trained staff on electronics, POS, and engraving machine.
- Obtained numerous positive customer reviews.

Pointe-Claire, Canada

Oct 2017 - Sept 2020

## Projects

### CommunityGrid

Laboratory of Energy Policy

PROJECT MANAGEMENT, NEXT.JS, DOCKER, FASTAPI, TYPESCRIPT, CYPRESS

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.

### Interlinked

Concordia University

PROJECT MANAGEMENT, FIREBASE, NEXT.JS, TYPESCRIPT

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.

### Handle

Concordia University

TENSORFLOW.JS, REACT, VITE

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.

### CrossCast

ConUHacks VII

NEXT.JS, TYPESCRIPT, PROJECT PLANNING

Jan 2023

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

### GunHead (Video Game)

Concordia Game Jam

UNITY, C#

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

Personal

PYTHON, DISCORD.PY, MONGODB

Oct 2021 - Nov 2021

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

### Handwriting Recognition using Accelerometers

John Abbott College

PYTHON, MATPLOTLIB, PYLOT, DATA MANIPULATION

Feb 2020 - Apr 2020

- Programmed Python scripts to create and read from csv files of acceleration data.
- Collaborated with research supervisor and one teammate.
- Designed triple integration algorithm to retrieve position data visually using Matplotlib PyPlot.

## Competitions

Jan 2022 **Mirego Sponsor Challenge Winner**, ConUHacks VII

Concordia University

Feb 2022 **Best National Team**, ENGCOMM 2022

ENGCOMM

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

Concordia University

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

Concordia University

Mar 2021 **Participant**, Genetec Challenge

Genetec Inc.

Jan 2021 **Participant**, Coveo Blitz

Coveo Solutions Inc.

Mar 2018 **Great Distinction**, Hydro-Quebec Science Fair

Hydro-Quebec

## Awards & Distinctions

Jul 2023 **Dean's List**

Concordia University

Jan 2021 **Bursary for Excellence in Engineering**

Concordia University

Sept 2020 **CEGEP Entrance Scholarship**

Concordia University

Mar 2018 **John Abbott College Science Award**

Hydro-Quebec Science Fair