Adamo Orsini

✉ adamo.orsini01@gmail.com | ⌂ adamoorsini.com | Adamo-O | adamo-orsini

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 *Montreal, Canada*

B. Eng. in Software Engineering. Co-op. *Sep 2020 - May 2024*

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

John Abbott College *Sainte-Anne-de-Bellevue, Canada*

D.E.C. in Sciences *Sep 2018 - Jun 2020*

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

Experience

Chief Technology Officer *Remote*

SoftGolf *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 *Montreal, Canada*

MECP *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 *Ljubljana, Slovenia*

Laboratory of Energy Policy *May 2023 - Aug 2023*

- 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.

Software Engineer Intern *Montreal, Canada*

PTC Inc. *Jun 2022 - Aug 2022*

- 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.

Intelligent Mobility Solutions Developer Intern *Montreal, Canada*

Genetec Inc. *Sep 2021 - Dec 2021*

- 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.

Customer Experience Representative *Pointe-Claire, Canada*

Indigo Books and Music Inc. *Oct 2017 - Sep 2020*

- 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.

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.

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.

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.

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, PyPlot, 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*