

Omar Solano

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Machine Learning Engineer skilled in computer vision and large language models. I'm passionate about using AI to improve and create novel, useful products.

EXPERIENCE

Machine Learning Engineer

Sep 2023 - Present

Towards AI, New York, United States

- Wrote 10+ educational technical articles and 2 book chapters about Large Language Models, including Fine-tuning, RAG, Agents, and more. The online courses reached an audience of over 25,000 students.
- Developed and deployed two Chatbot applications using FastAPI and Python: an AI tutor (open-source) and a Job Board Assistant. The AI tutor project has been shared as part of the online courses. Deployed the APIs to Google Cloud Platform, ensuring high availability and scalability.

Machine Learning Engineer

Jan 2021 - Jul 2023

designstripe, St-Bruno-de-Montarville, Canada

- Fine-tuned pre-trained AI models (text-to-image and LLMs) for various applications using Hugging Face libraries (Diffusers, PEFT, Transformers) and cloud computing instances (AWS, GCP)
- Deployed models to cloud services and developed REST APIs (FastAPI). I also provided internal demos (Gradio Python library) for internal evaluation, facilitating feedback and iterative improvement.
- I participated in designing and developing applications of machine learning algorithms for new products, including a color palette generator (a generative model using a GAN) and a color extraction tool from images (k-means).
- Participated in data acquisition (web scraping, labeling) and data processing (cleaning, filtering) activities to develop new models.
- Collaborated with cross-functional teams to define project requirements and deliverables.
- Conducted research to stay up-to-date on the latest AI advancements and actively shared insights with the team to identify and explore creative solutions relevant to the Startup.

EDUCATION

Master of Engineering (M.Eng.) - Automated Manufacturing Engineering - AI

May 2023 - Apr 2025 (Expected)

École de technologie supérieure, Montréal, QC

Bachelor of Engineering (B.E.) - Automated Manufacturing Engineering

Sep 2017 - Jun 2021

École de technologie supérieure, Montréal, QC