

# Mariano Crosetti

Computer Science (Msc. equivalent) | Argentinian - Italian

LinkedIn | Website | GitHub | Email

## ABOUT ME

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I'm a machine learning engineer specializing in deep learning with expertise in shipping solutions to real-world problems (founder experience). I excel in technically complex projects where pushing the boundaries of what's possible and practical with AI is essential.

## EXPERIENCE

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### Machine Learning Engineer

Santa Clara, CA

QuarkAI

2022 - Present

- When ChatGPT API was released, I took the initiative and integrated it in a single weekend, adapting the stack: data pipeline, databases, search engine, and frontend. It was critical to maintain all the clients.
- Integrated computer vision models in PyTorch fine-tuned to recognize blueprint semantic content: pivotal feature in securing a \$300K/year client.
- Saved \$60K/year using model distillation (PEFT, LLaMA, QLoRA) in our most frequent LLMs usages.
- Technical consultant in client-facing meetings, accounts exceeding \$300K/year, advising sales and product teams on feasible solutions, timelines, and implementation strategies.
- Led the implementation of middleware infrastructure for caching queries, automating dataset creation, freeing up an engineer in charge of that task for higher-priority projects.

### Co-Founder - Tech Director

Argentina

Ventilemos (IoT solutions for controlling air quality)

2020 - 2022

- Trusted by +25 Multinational Companies, +30 Research Institutes, and +15 Government Institutions.
- Reduced capital risk to near zero, maintaining volume: delivered a prototype in 3 weeks, validated PMF, secured hundreds of early orders, and finally launched the product in just 1.5 months.
- Outsourced the production, scaling it to 1000 units/month while maintaining capital efficiency.

### Machine Learning Engineer Consultant | Computer Vision

Argentina

"Santa Fe Electoral System"

2020 - 2021

- Implemented safe and fast signature recognition and OCR in an Android app used in National elections.

### Software Engineering Intern (Google Stadia)

Mountain View, California

Google Inc

January 2018 - April 2018

- Got superb review, getting a full-time offer.

### Machine Learning Engineer | NLP

Argentina

Brightsector Algorithms

2018 - 2020

- Implemented the automatic attribute extraction for MercadoLibre (LATAM's largest e-commerce).

### Software Engineering Intern (Google Codejam)

San Francisco, California

Google Inc

June 2017 - September 2017

## SKILLS

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**Programming Languages & Frameworks:** C/C++, Python, JavaScript, Java, NodeJS, Flask, Django

**Databases & Infrastructure:** SQL, Qdrant, Solr, MongoDB, Airflow, AWS, GCP, Docker, Docker Swarm

**Deep Learning & NLP:** CUDA, PyTorch, Hugging Face Transformers, LLM Fine-Tuning, ViT, YOLO, MAE, Stable Diffusion, Distillation, Model Pruning, Quantization, spacy, Ollama, GPT, Langchain

## EDUCATION

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### Universidad Nacional de Rosario, Argentina

2011 - 2018

Computer Science (BsC + MsC equivalent), GPA: 9.83/10

### Fulbright Scholarship, University of Central Arkansas,

2016

"Organized by U.S. Embassy"

## ICPC COMPETITIVE PROGRAMMING

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**ACM ICPC World Finalist contestant:** Morocco 2015, Thailand 2016, **LATAM Champion**

**ACM ICPC World Finalist coach:** Portugal (2019), Egypt (2023), Kazakhstan (2024)