

Mariano Crosetti

Computer Science (Msc. equivalent) | Argentinian - Italian

LinkedIn | Website | GitHub | Email

ABOUT ME

I'm a machine learning engineer specializing in deep learning with expertise in shipping end-to-end AI systems to production (founder experience). I thrive in environments with tight feedback loops and high-intensity teams where results are immediate and measurable.

EXPERIENCE

Research Engineer, Applied AI

Aleph

New York, United States (Remote)

June 2025 - Present

- Built a production closed loop (online) prompt optimization system (DSPy-style): user natural language critiques act as a live reward signal, automatically updating prompt per interaction.
- Created a novel clusterization method using LLMs for grouping financial data for pattern recognition.
- Optimized fullstack Google Sheets add-in performance, achieving 60% speedup in one month: clients and prospects highlighted it now outperforms competitors.

Machine Learning Engineer

QuarkAI

Santa Clara, CA

2022 - 2025

- Saved \$60K/year via model distillation with DPO + PEFT (LLaMA, QLoRA) on our most frequent LLM usages.
- 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.
- Technical consultant in client-facing meetings, accounts exceeding \$300K/year, advising sales and product teams on feasible solutions, timelines, and implementation strategies.

Co-Founder - Tech Director

Ventilemos (IoT solutions for controlling air quality)

Argentina

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

"Santa Fe Electoral System"

Argentina

2020 - 2021

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

Software Engineering Intern (Google Stadia)

Google Inc

Mountain View, California

January 2018 - April 2018

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

Machine Learning Engineer | NLP

Brightsector Algorithms

Argentina

2018 - 2020

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

Software Engineering Intern (Google Codejam)

Google Inc

San Francisco, California

June 2017 - September 2017

EDUCATION

Universidad Nacional de Rosario, Argentina

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

2011 - 2018

Fulbright Scholarship, University of Central Arkansas,

"Organized by U.S. Embassy"

2016

ICPC COMPETITIVE PROGRAMMING

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

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