

Mario Dagrada

Engineering Lead | AI and Scientific Software

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Profile

Product-focused engineering leader with 10+ years of experience building scientific software and AI-powered products. Proven track record of growing engineering teams from scratch, taking products from 0 to 1 in startup and scale-up environments, and translating research prototypes into reliable production systems.

Expertise

> Core	Product & AI engineering	Engineering management	Scientific software
	Cloud & HPC infrastructure for AI		
> AI & ML	AI agents	LLM infrastructure and evaluation	Physics-informed ML
	Time-series analysis	Distributed model training	PyTorch
	scikit-learn	JAX	Spark MLlib
	MLflow		
> Software	Python	TypeScript	Go
	C/C++	Julia	GPU programming & CUDA
> Cloud & Data	AWS	Azure and GCP (working knowledge)	Kubernetes
	Terraform	Pulumi	Kafka
	RabbitMQ	PostgreSQL	Elasticsearch
	DynamoDB	HPC operations (MPI, OpenMP, Slurm)	

Professional Experience

Scientific Product Lead - *GroundIQ, part of Fugro*

The Hague, Netherlands

Mar 2026 – Present

- Expanded adoption of internal scientific libraries to more than 50 engineers, supporting workflows that generate ~€70M in revenue
- Lead two product teams comprising ~15 people, with responsibility for technical direction and people management
- Develop GPU-based algorithms for geophysical processing and maintain the internal HPC cluster
- Established AI coding practices across all company engineering teams

Fractional AI Engineer - *Independent consulting*

Remote

Nov 2024 – Present

- Deliver project-based LLM infrastructure and AI agent pipelines for clients in insurance, R&D, and SaaS
- Own LLM infrastructure and evaluation pipelines for [Jupi](#), a SaaS company

Chief Technology Officer - *Friday Energy*

Utrecht, Netherlands

Feb 2024 – Sep 2025

- Grew the engineering organization from 2 to 10 engineers
- Scaled the platform from 10 to approximately 80 clients while maintaining 99.9% service reliability
- Led deployment of ML control algorithms across approximately 5 MW of capacity, increasing recurring revenue by approximately 25%
- Owned and evolved the company's technology strategy as a member of the management team
- Established strategic relationships with key technology partners and suppliers

Professional Experience (continued)

Head of Scientific Software - *PASQAL*

Amsterdam, Netherlands

Sep 2020 – Feb 2024

- Grew the scientific software organization from 1 to 14 engineers
 - Expanded adoption of scientific software across approximately 40 scientists and more than 20 corporate clients
 - Developed GPU-accelerated software for distributed quantum ML algorithms
 - Established and managed strategic partnerships with academic institutions
 - Authored scientific publications and led technical outreach
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Senior R&D Software Engineer - *Forescout Technologies*

Eindhoven, Netherlands

Apr 2018 – Sep 2020

- Led the product innovation roadmap for Forescout's operational technology product
 - Led development of an ML-based cyber-threat detection system
 - Managed technical work packages across four EU research projects worth a combined ~€2M
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R&D / Software Engineer - *Atos Bull*

Grenoble, France

Aug 2016 – Apr 2018

- Optimized the performance of parallel scientific libraries
 - Developed HPC interconnect software, including drivers and network protocols
 - Contributed to Open MPI for an internal interconnect project
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Education

PhD in Computational Physics

2013 – 2016

Sorbonne University (Paris VI), Paris, France

MSc in Physics of Complex Systems

2011 – 2013

Politecnico di Torino and Sorbonne University, Turin, Italy and Paris, France

With honors

BSc in Physical Engineering

2009 – 2011

Politecnico di Torino, Turin, Italy

With honors

Languages

Italian - Native | English - C1 | French - C1 | Spanish - C1 | Dutch - B1