

Marco Giuliano D'Amico

Tech Lead · Full Stack Developer

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ABOUT

Tech Lead and full stack TypeScript developer.

I work on financial systems architecture on AWS, with a focus on cloud security and incremental delivery.

EXPERIENCE

Tech Lead · Full Stack Developer

2024 – Present

Vulcan Tech · Centaurus Group

Capital-markets systems built from scratch on a microservices architecture. I lead the technical team (development, support and product) and set the platform's technical direction.

- Co-designed the platform from scratch with the infrastructure engineer: AWS accounts, Kubernetes and environments. I define the architecture and review every component before production.
- Integrations with markets, order systems, financial data and external back-offices, with async jobs (SQS, Kubernetes, Redis). Migration of legacy consumers from .NET to Node.
- Cloud security and secure delivery: IaC with AWS CDK and GitHub Actions pipelines (OIDC), with MFA, vulnerability scanning, secret validation and manual approval for production.
- AWS governance and operations across multiple accounts (costs, secrets, security, auditing) and observability with Grafana, Prometheus, Loki and Mimir.
- Internal management platform (IDP) with in-house CLIs for Kubernetes, secrets, access and permissions, so developers can focus on the product.
- Applied AI: an OCR service that extracts data from documents (AWS Bedrock) and a query generator over the core system's schema, with alerts on third-party changes.

DevSecOps Consultant · Freelance

Jan – Jun 2026

Firmato

6-month contract: technical audits of client systems.

- Code and architecture review, plus assessment of security, performance and CI/CD pipelines, with improvement recommendations.

Full Stack Developer · Frontend Instructor

2020 – 2024

NUCBA

"Galileo" submissions platform (2,500+ students) and institutional HUB, leading a team of 2 developers. Taught the Frontend program and ran JavaScript and React meetups.

- Development of the institutional course-viewing system and the assignment submission system.
- Designed and built the enrollment flow, including the full payment gateway integration with Mercado Pago and Increase Pay.
- Migrated infrastructure from DigitalOcean to AWS (EC2/ECS, RDS PostgreSQL, ALB, ECR) with CI/CD on GitHub Actions.

Project Manager · Full Stack Developer 2020 – 2022

CJ Springs

Development of an end-to-end internal ERP for an automotive coil and spring manufacturer with 30+ employees across multiple plants: stock, sales, cash flow and financial activity.

Founder · Web development and content 2016 – 2021

QeoFamily

Automotive digital media brand with an Instagram community of 160K+ followers, operated independently. Development of the website and of an internal system to publish and manage content.

PROJECTS

Socky

Cross-platform app (Android and iOS) to share the clipboard across devices, with its own backend.

React Native · Expo · Node · Express · Prisma · Docker

Bugsmith Applied AI

Agent that reads a production error, finds the responsible code and proposes the fix in a PR for a person to review.

Python · FastAPI · SQLite FTS5 · fastembed · MCP · LLM evals · Next.js

Car photo organizer Applied AI

Photo organizer for the automotive world: sorts large photo batches and drafts the text for posts and technical reports.

Python · FastAPI · SQLite · Gemini · RAG · Agents · MCP · Next.js

STACK

languages	TypeScript · JavaScript · Python · SQL
backend	NestJS · Node.js · FastAPI · Prisma · Hexagonal architecture · CQRS
frontend	Next.js · React · React Native · Tailwind CSS
aws	Lambda · SNS/SQS · S3 · Athena · Glue · Step Functions · ECS/EC2 · RDS · Bedrock · Organizations · IAM Identity Center · Security Hub · CDK
huawei cloud	CCE · ECS · OBS · RDS · VPC · Server Migration Service (SMS)
data	SQL Server · PostgreSQL · MongoDB · Redis
devops	Docker · Kubernetes · GitHub Actions (OIDC) · Trivy
observability	Grafana · Prometheus · Loki · Mimir
ai	Claude Code · RAG · Agents and tool calling · MCP · LLM evals

EDUCATION

nucba	Full Stack Program (2017 – 2019) · Backend Program · UX/UI Bootcamp
courses	Platzi · Crehana · Domestika: programming, UX/UI and data
languages	Spanish (native) · English (intermediate)

REFERENCES

NUCBA Secretary's Office - 11 2409-6552