

# Nicolás Marino

Senior Software Engineer @ Mercado Libre

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## Summary

**Backend & Data Engineer with 6+ years of experience in large-scale e-commerce systems.** Specialized in Python, Java, and TypeScript, with a strong focus on catalog quality, ML-powered solutions, and data platforms. I've led projects that reduced processing costs by tens of thousands of dollars, improved catalog compliance by 200k+ items, and delivered dashboards that cut decision-making time by 40%. Passionate about building tools that help teams move faster and make better decisions.

I also co-founded [conectandote.com.uy](https://conectandote.com.uy), a platform that connects students in Uruguay with educational opportunities, and write about applied data practices on [Data For Everyone](#).

## Education

**Universidad ORT Uruguay** · 2018 – Present

- (Bachelor of Science in Information Systems)

Intermediate Degree Awarded: 2025 — Systems Analyst

## Experience

### Mercado Libre

**Senior Software Engineer** · Jul 2025 – Present

- Built a Python MCP that streamlined internal development workflows.
- Developed a product index system to identify high-potential catalog items.
- Automated 15+ recurring manual processes with n8n + BigQuery + internal APIs, freeing ~200 hours/month for the Catalog Ops team and improving SLA compliance.
- Delivered several technical talks on AI, backend, and data topics to audiences of ~250 developers across internal events.

**Semi-Senior Software Engineer** · Feb 2022 – Jul 2025

- Designed an image detection system that removed 200k+ non-compliant (sellers) images.
- Optimized BigQuery pipelines, cutting runtimes and saving \$80,000+ in costs.
- Delivered dashboards that reduced product prioritization time by 40%.
- Created abstraction layers in Java to accelerate AI feature integration.
- Implemented an image-duplication detection system with OpenCLIP, processing 150K+ RPM and improving match accuracy by 30%.

**Software Development Analyst** · Sep 2020 – Feb 2022

- Improved catalog quality metrics by 22% through new data solutions.
- Built automated reports adopted by 50+ stakeholders.
- Collaborated with the Search team to enhance product ranking relevance, reducing low-quality search results and boosting click-through rate by 8% across key categories.

### Infocorp

**Semi-Senior Developer** · Oct 2019 – Sep 2020

- Built core modules for a React Native mobile banking app used by 30,000+ clients.
- Implemented responsive UI components in collaboration with UX designers.
- Participated in code reviews and mentored junior developers.

**Junior Developer** · Oct 2018 – Oct 2019

- Developed and maintained home banking platforms for three major financial institutions in LATAM.

## Projects

**Conectandote** · 2024 – Present

Co-founded and led backend development for Conectandote. Deployed the platform on AWS (Docker, Fargate) with TypeScript and AdonisJS, scaling to 10,000+ users with high availability.

**Data For Everyone (Blog)** · 2022 – Present

Author of articles on data science, analytics, and machine learning practices.

## Skills

**Languages & Databases:** Python, Java, TypeScript, SQL, Aurora (RDS)

**Frameworks & Libraries:** Spring Boot, Node.js, AdonisJS, React Native, Vue, pandas, scikit-learn

**Cloud & DevOps:** AWS (EC2, Fargate, S3, Lambda, ECS), Docker, CI/CD, Cloudflare

**BI & Data Tools:** BigQuery, Looker Studio

## Certifications and Training

- **Data Champions (Mercado Libre)** — Data Engineering & ML · 2023
- **AWS Projects** — S3, ECS, Fargate, Lambda, ECR, Aurora · 2024–Present

## Languages

- Spanish — Native
- English — B2