

Márcio Molina Morassutti

Senior Software Engineer · Tech Lead

Backend .NET · Distributed Systems · System Integration · Industrial and Regulated Platforms

Curitiba, Paraná, Brazil (UTC-3) · Available for remote work and international opportunities

Contact: contact@marciomm.com · linkedin.com/in/marcio-molina-morassutti · marciomm.com/profile

SUMMARY

Senior software engineer and technical lead with 15+ years across software engineering and industrial technology. Specialized in .NET backend, distributed systems and system integration, from architecture to production operations. Experience in regulated and industrial environments, with hands-on technical leadership of multidisciplinary teams. Work across architecture, implementation, delivery and operations.

SKILLS & TECHNOLOGIES

- **Backend and frameworks:** C#, .NET, ASP.NET Core, Entity Framework Core; Node, JavaScript / TypeScript (React/Angular) as complementary stack
- **Architecture and distributed systems:** DDD, Clean Architecture, CQRS, asynchronous processing, event-driven architecture
- **APIs and integration:** REST, GraphQL, SOAP/WCF, RabbitMQ, SAP, Sabre/Navitaire, justice-sector systems and public institutions
- **Industrial / OT:** OPC UA, OPC DA/A&E, DCS (ABB System 800xA), PIMS (Aspen InfoPlus.21), Modbus
- **Data:** SQL Server, PostgreSQL, Oracle
- **Cloud, containers and delivery:** AWS, Docker, Kubernetes (Rancher), Azure DevOps, GitLab CI/CD
- **Quality and practices:** Automated testing (unit/integration), TDD, BDD (Gherkin · SpecFlow/Reqnroll), observability (Elastic APM), production analysis, technical mentoring
- **AI applied to software engineering:** generative AI, LLM coding agents and context engineering applied to architecture, code, tests and documentation, with human validation
- **Previous experience:** Java, PHP, MySQL, SharePoint, jQuery

PROFESSIONAL EXPERIENCE

Softplan - Tech Lead · Senior Software Engineer

Aug 2021 – Nov 2025 · Remote

SAJ Public Prosecutor Offices, a case-management platform adopted by 10 Brazilian public prosecution services, including São Paulo's, the largest in the country. Part of Softplan's Justice suite, which also serves justice institutions in Argentina, Colombia and Peru.

- Provided cross-functional technical leadership across multidisciplinary teams (backend, frontend, QA, Product, PMO, UX/UI, DBAs), with direct interaction with end clients and operational managers in Public Prosecutor Offices using the platform.
- Designed and implemented asynchronous integrations between Public Prosecutor Offices, courts and external services with RabbitMQ, enabling safe reprocessing and end-to-end traceability. Also integrated SAJ with the WhatsApp Business Platform via SERPRO.
- Led legacy modernization and architectural evolution (DDD, Clean Architecture, CQRS), with parallel processing and database optimization (PostgreSQL, Oracle, SQL Server) in partnership with DBAs, removing persistence bottlenecks in critical flows.
- Developed ASP.NET Core APIs (REST and GraphQL) with Entity Framework Core and ensured quality through automated testing and BDD (Gherkin · SpecFlow → Reqnroll), standardizing acceptance criteria across teams.
- Performed production diagnostics and root-cause analysis with Elastic APM, with continuous delivery through GitLab CI/CD, Docker and Kubernetes (Rancher).
- Led code reviews, technical mentoring and technical interviews for engineering hiring.

GOL Linhas Aéreas - Senior Full Stack Developer

Sep 2020 – Aug 2021 · Remote

- Developed B2C APIs in .NET / .NET Core across six Sabre GDS families: authentication, booking, check-in, flights, flight status and flight changes, including same-day flight changes, enabling passenger digital journeys at GOL, one of Brazil's largest airlines.
- Integrated with Sabre Digital Connect (DC, DC-CI, DC-DCP), Sabre Web Services and Navitaire PSS, exposing REST contracts and SOAP/WCF adapters where required by aviation legacy systems, reducing dependency on tightly coupled integrations.

- Modernized the legacy B2B corporate portal (ASP.NET MVC, AngularJS) during the core migration to the Sabre ecosystem (GDS/PSS), evolving previously isolated applications into the new distribution ecosystem.
- Delivered with Clean Architecture and SOLID through Azure DevOps (Git, Pipelines, CI/CD) and Docker, with SQL Server in production.

Progress Rail, A Caterpillar Company - Senior Full Stack Developer Aug 2020 – Sep 2020 · Curitiba

- Developed and maintained web applications in .NET / .NET Core for railway telemetry, handling locomotive location and operational data.

International Experience - Sydney, Australia

Sydney Knowledge Hub - Software Engineer · Freelance

Apr 2020 – Jul 2020 · Sydney, NSW

- VirtuPharma (now AirLabOne), a HealthTech in the University of Sydney innovation hub: contributed to software architecture, developed the institutional portal and helped create interactive prototypes of laboratory environments.

National Justice Project - SharePoint Administrator / IT Support

Feb 2020 – Apr 2021 · Sydney, NSW

- Developed and customized SharePoint Online solutions, automated administrative activities with PnP PowerShell, implemented security and compliance requirements for sensitive legal data in Microsoft 365 and provided IT support to users.

Peróxidos do Brasil - Solvay Group - Curitiba, Brazil

Continuous-process chemical industry, a joint venture between Solvay Group and PQM, and a South American leader in hydrogen peroxide. Career started in Production Planning and Control (PCP), later transitioning to IT and applying industrial process knowledge to the company's application portfolio.

Systems Development Analyst

Jan 2014 – Apr 2018

- Architected, developed, deployed and maintained the corporate and industrial .NET/C# portfolio (PBL Industrial Portal): production, procurement, engineering, KPIs, alarms/events and QHSE, centralizing information previously dispersed across spreadsheets and isolated systems.
- Built OT/IT integrations connecting shop floor and ERP: ABB System 800xA DCS (OPC DA/A&E, Modbus), Aspen InfoPlus.21 via ODBC and SAP (PP/MM/SD/FI/CO), eliminating manual reconciliation between operations and business systems.
- Worked across the GCEF lifecycle (bulk hydrogen peroxide loading), integrating plant control, PIMS and SAP for automated issuance of tax, accounting and logistics documents for domestic and international operations.
- Developed industrial indicators and intelligence from SAP (PP/MM) and PIMS (InfoPlus.21), giving production and management visibility into inventories, consumption and production.

Production Technical Assistant (PCP)

Oct 2007 – Dec 2013

- SAP Key User (PP/MM): production closing, consumption allocation, inventory control and KPI dashboards for senior management.
- Implemented Aspen InfoPlus.21 (PIMS) in the industrial automation network and developed the first ASP.NET/C# and SQL Server applications that originated the later portfolio.

Araucária City Hall - Administrative Assistant, IT & Historical Archive

May 2004 – Sep 2007 · Araucária, Brazil

- Developed a PHP/MySQL web application to catalog the Municipal Museum collection; digitized and digitally restored historical images; provided technical support for cultural publications.

EDUCATION

Federal University of Technology - Paraná (UTFPR)

- Postgraduate Specialization, Industrial Automation · 2012–2013
- Technology Degree in Telecommunications · 2008–2011
- Technical Degree in Electronics · 2005–2008

CERTIFICATIONS

MCSA: Web Applications · Programming in C# - Microsoft 70-483 · MTA: Software Development Fundamentals · ITIL Foundation v3 · EXIN Agile Scrum Foundation

LANGUAGES

Portuguese - Native · English - Professional working proficiency · Spanish - Limited working proficiency