

Pedro Molina

Senior Software Engineer at CME Group

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BUENOS AIRES
CHICAGO ★★★★

Profile

Java developer and team lead with well over a decade of experience designing and delivering high-quality, high-performance Core Java solutions, most of it in financial services. Since 2013 I have worked on CME Group's market data and pricing systems: first from Buenos Aires with TradeHelm, then in Belfast, and now in Chicago.

Along the way I moved from developer to team lead and manager, mentoring teams while staying close to the code.

Experience

CME Group

2020 – Present

Senior Software Engineer — Nov 2021 – Present · Chicago, United States

Modernising a legacy COBOL trading system into a Core Java back end with a React front end, running on Kubernetes in the cloud. Using AI coding tools to accelerate the migration.

Core Java · React · Kubernetes · Cloud · AI-assisted migration

Senior Software Engineer — Jan 2020 – Nov 2021 · Belfast, United Kingdom

Maintained one of the applications in CME's Pricing area, covering support, development and refactoring. Led the team's stand-ups in an adaptation of Scrum and worked towards continuous integration and delivery.

Core Java · Git · Bitbucket · Jira · Confluence

TradeHelm

2013 – 2020 · Buenos Aires

Manager — Feb 2019 – Jan 2020

Led three teams on different projects. Coordinated nearshore work with managers on the client side, defined delivery workflows with the teams and product owners, and identified weak points along with the actions to correct them. Kept developing and supporting one of the projects to stay in touch with the code.

Team Leader — Jan 2018 – Jan 2019

Led the team working on CME's pricing systems from Buenos Aires, and was the main point of contact between CME's managers and the engineers in Argentina, while keeping my responsibilities as a developer.

Senior Java Developer, Pricing — May 2015 – Dec 2017

Brought several applications in line with CME's recommended security practices, then helped refactor a legacy intraday pricing application from a monolith into a modular, up-to-date system. It processes a considerable volume of messages per second, but precision in the price calculation matters most. Ran deployments to pre-production and production.

Core Java · GWT · Oracle · Linux · Git · Jira

Senior Java Developer, Market Data — Sep 2013 – Apr 2015

Built new systems and maintained legacy ones for CME Group's Market Data team, taking part in design, implementation and QA support. All back-end work with an emphasis on performance: high throughput and very low latency.

Core Java · Spring · Oracle · Git · Jira

Teaching

Universidad Centro de Altos Estudios en Ciencias Exactas

2012 – 2017 · Buenos Aires

Professor, Software Engineering — Dec 2015 – Oct 2017
Taught the software life cycle, elicitation, analysis, documentation, verification and validation.

Assistant Professor — Oct 2012 – Nov 2015
Reviewed students' practical work and guided them through the semester, and taught use cases and UML diagrams.

Earlier experience

2013 — **Frávega** · Senior J2EE Developer
Rolled out the data migration and integration subsystem of Intellipos, a point-of-sale system, keeping prices and promotions correct at every point of sale across the country.

2010 – 2013 — **Hasar Sistemas** · Senior J2EE Developer
Requirements for Intellipos, then its integration with the legacy system and its COBOL files: web services, RMI connections and data validation.

2008 – 2010 — **TGV** · Senior J2EE Developer
DMFAS, a United Nations system for managing countries' debt. Design, client contact and coordination of two other developers.

2007 – 2008 — **Intraredes** · Semi-Senior J2EE Developer
New and existing web applications, including a monitor and manager for Asterisk PBX.

2006 – 2007 — **Grupo Calipso** · Junior Java Developer
A viewer and control panel on the company's cube framework, and a J2ME app extending the Calipso Corporate ERP.

Skills

Core Java · Java concurrency · Object-oriented design · High-throughput, low-latency back ends · Legacy modernisation · SQL · Google Cloud · Kubernetes · Linux · Git · Scrum · Team leadership · Mentoring

Education

Bachelor's degree in Systems
Universidad Centro de Altos Estudios en Ciencias Exactas · 2007 – 2011

Systems studies
Universidad de Buenos Aires · 2003 – 2007

Languages

Spanish
Native

English
Professional working proficiency

Journey



Buenos Aires
34.60° S · 58.38° W
2006 – 2020



Belfast
54.60° N · 5.93° W
2020 – 2021



Chicago
41.88° N · 87.63° W
2021 – Present