Federico Martin

Product Engineer | Full Stack (Java/Spring, React) & Applied AI

San Isidro, Buenos Aires, Argentina · Remote, GMT-3 (overlaps U.S. Eastern)

English C1 (full professional proficiency) · Spanish native

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TECHNICAL SKILLS

Backend	Java 17/21, Spring Boot 3.5, Spring AI, REST APIs, microservices, API and system design.
Frontend	React, TypeScript, Vite, TanStack Query, Zustand, React Router, Ant Design, progressive web apps (PWA).
Data	PostgreSQL, MariaDB, Supabase, Cloudflare D1, SQL, Flyway.
Cloud & delivery	AWS (EC2, RDS, S3, CloudFront, SNS, SQS), Cloudflare Workers, Docker, Linux, GitHub Actions, GitLab CI.
Testing & quality	JUnit 5, Vitest, React Testing Library, Playwright, TDD, code review.
Observability & security	Micrometer/OpenTelemetry, Grafana, Loki, Sentry; RBAC, audit trails, SOC 2 vulnerability remediation.
Applied AI	LLM API integration, MCP servers, tool calling, retrieval-augmented generation (RAG), permission boundaries, output validation, LLM evaluation against known data.
AI-assisted development	Spec-driven development, agentic workflows with Pi agent (orchestrator and role-scoped sub-agents), model and reasoning-effort routing per task, parallel agents in git worktrees managed with Herdr, persistent agent memory (Engram), risk-based multi-model review, test-first delivery, Claude Code, Codex.

PROFESSIONAL EXPERIENCE

Zōklo · Founder & Product Engineer

June 2025 – present | Full time since November 2025 | Buenos Aires, Argentina (remote)

- Built and launched Zōklo in six months as the sole engineer, from discovery with an architecture studio to production, where architecture studios now use it daily. Own requirements, architecture, Java 21/Spring Boot 3.5 APIs on PostgreSQL, React/TypeScript frontend, AWS deployment and support.
- Replaced spreadsheet-based operations with a single multi-tenant system: role-based permissions, audit trails, financial workflows and project-level data isolation.
- Shipped AI features in production with Spring AI and LLM APIs: purchase entry from receipt photos and from voice; MCP servers and Google Calendar integration so AI assistants act on project and financial data within application permissions.
- Validate LLM behaviour against known project data: permission isolation, tool selection and arguments, read/write boundaries, idempotent retries and consistency across rephrased queries.
- Instrumented the platform with Micrometer/OpenTelemetry, Grafana, Loki and Sentry; handle production support directly with users and turn their feedback into releases.
- Built and run Zōklo with this agentic workflow as a solo engineer: feature briefs, small test-first commits, parallel agents and independent review, which made it possible to ship a multi-tenant SaaS to production in six months.

Studio Liebre · Product Engineer, Interactive Experiences & AI

July 2026 – present | Project-based collaboration

- Build web experiences for brand events (AI trivia, image generation, games, lead capture) with React/TypeScript and LLM and image APIs; three events delivered to date, defining features with the studio and its clients and shipping to fixed event dates, including on-site setup.
- For CNP Seguros at Expoestrategas 2026, built in two weeks a web app with AI trivia and AI-generated portraits from selfies (primary and fallback image providers, QR delivery): 170 attendees completed it and shared their image, with ~95% availability and successful generation; delivered real-time usage metrics and participant data to the client.

TEAM International · Java Software Engineer

June 2023 – December 2025 | Remote | Client: YSG RefiJet, U.S. automotive finance company

- Developed and maintained six production microservices (Java 17, Spring Boot, relational databases, AWS S3/SNS/SQS) in an Agile team, coordinating requirements in English with the U.S. team lead; targeted contributions to React micro-frontends.
- Cut document preparation for financing applications from about 1.5 business days to 15 minutes with services that populate PDF templates from customer and application data.
- Contributed to the development of a state-based business rules engine that determines document content and auto-fill behaviour per financing requirements.
- Integrated UPS for shipment processing and label generation inside the internal platform.
- Independently migrated and upgraded business-critical microservices from Spring Boot 2.7 to 3.5 (security, persistence, configuration, dependencies, automated tests); kept security up to date for SOC 2, consistently resolving critical and medium vulnerabilities tracked in Vanta.

Globant · Java & Oracle Developer

November 2021 – June 2023 | Buenos Aires, Argentina | Client: BIC, operations across the Americas

- Built reports, Java modules and enhancements for Oracle JD Edwards supporting manufacturing and enterprise processes; contributed to the label-generation solution used in BIC's plants in Mexico.
- Implemented production EDI/AS2 integrations with new customers and partners (transaction mapping, database integration, configuration, support) and resolved critical incidents directly with partners such as Amazon.

EDUCATION

Digital House · Certified Tech Developer, Web Development

2021 – 2022

Universidad CAECE · Undergraduate coursework in Information Systems

2018 – 2021 | Partial undergraduate studies, no degree awarded