

# AGUSTÍN DE GIORGI

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| 📁 Portfolio: <https://degiorgi.dev>

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## PROFESSIONAL EXPERIENCE

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### ICBC Argentina

*Tech Lead*

Córdoba, Argentina

Nov 2023 – Present

- Led the agile engineering team building and optimizing critical financial transaction flows (transfers, bill payments, 2FA) on YOY, the bank's flagship mobile application, supporting peak-day traffic of up to 640K logins, reducing mean time to resolution by implementing end-to-end observability with Dynatrace and ELK Stack.
- Championed TDD and rigorous code review standards while designing and maintaining 10–15+ reusable microservices across the platform, including a cross-cutting fraud-prevention service (35M+ monthly executions) and the core transfers service (13M+ monthly executions), both consumed by multiple applications, reducing technical debt and cross-team integration impediments.
- Drove iterative product delivery from MVP to production by partnering directly with the Product Owner on requirement definition and participating in UX design briefs, ensuring architectural feasibility at each iteration.
- Orchestrated the complete production deployment lifecycle for high-stakes financial features, coordinating staged rollouts and post-release verification to ensure zero-regression delivery at scale.
- Since Oct 2025, expanded scope into full-time architecture responsibilities for the Retail segment (Mobile and Web): defining technology trade-offs and migration roadmaps toward microservices and microfrontends, and producing C4 model diagrams, UML specifications, and Architecture Decision Records (ADRs) to align distributed engineering teams and business stakeholders for a platform serving 560K+ monthly active users.

### MobyDigital (Client: ICBC / YOY App)

*Tech Lead*

Córdoba, Argentina

Jan 2023 – Nov 2023

- Promoted to Tech Lead for the engineering team delivering the YOY banking application for ICBC; continued leading the same team and account without interruption following conversion from contractor to direct ICBC employee in Nov 2023 (see **ICBC Argentina**, above).

*Backend Mentor (concurrent)*

May 2022 – Apr 2023

- Designed and maintained the company-wide Backend Roadmap, defining structured learning paths for Java/Spring engineers across junior and semi-senior levels, accelerating onboarding velocity for new hires.
- Mentored 8+ junior and semi-senior developers and trainees from the company's Labor Insertion Program (PIL) through weekly technical training, code reviews, and roadmap tracking, contributing to their progression and eventual hiring.

*Full Stack Developer*

May 2022 – Dec 2022

- Architected microfrontend solutions using single-spa and Angular, enabling independently deployable UI modules and decoupling frontend release cycles across product teams.
- Designed and built reusable UI components with Angular and TypeScript, ensuring visual consistency through internal component libraries in close collaboration with UX/UI teams on mobile-first design.

*Backend Developer*

Nov 2020 – May 2022

- Designed and implemented RESTful microservices in Java/Spring Boot for the customer onboarding flow (savings accounts, debit/credit card issuance) under a distributed microservices architecture.
- Authored shared Java libraries, standardizing cross-cutting behavior and reducing codebase duplication across the platform (SOLID principles).
- Optimized the data persistence layer using Oracle PL/SQL stored procedures and implemented unit/integration test suites (JUnit, Mockito, MockServer) aligned with banking-grade quality standards.

- Developed monolithic Java applications and REST APIs using the Spring Framework (MVC pattern), establishing foundational backend practices early in the company's Java ecosystem adoption.
- Implemented data persistence with Hibernate/JPA over MySQL while adopting Git-based version control and Bitbucket CI pipelines from the outset of the role.

## TECHNICAL PROJECTS

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### Gastra

2025 – Present

*React Native · Java · Spring AI · PostgreSQL + pgvector · Redis · Ollama · Docker · ELK · Testcontainers · Claude Code · Linear MCP*

- Designed a hybrid retrieval system (PostgreSQL + pgvector) combining vector similarity, geolocation, and real-time weather signals to rank restaurant recommendations from natural-language queries, resolving free-text intent (dish, mood, social context) into structured search parameters via LLM.
- Structured the backend using Hexagonal Architecture, separating domain logic, infrastructure, ports, and adapters per DDD principles, isolating LLM provider integration and persistence concerns from core business rules to keep the domain model framework-agnostic and independently testable.
- Architected a Server-Driven UI layer where the backend determines frontend rendering: an interactive map, a single high-confidence result (90%+ match score), or a ranked list of up to 20 venues, based on query specificity and match confidence, decoupling UI logic from the React Native client.
- Reduced redundant LLM inference calls by implementing Redis-based caching for semantically equivalent queries within the same geographic area, and engineered prompt-injection and off-topic guardrails via master-prompt validation and rate-limiting to constrain model responses to the application domain.
- Deployed local LLM inference via Ollama in Docker and adopted Spec-Driven Development (SDD), using Claude Code and Linear over Model Context Protocol (MCP) as the primary engineering workflow, validating AI-pipeline correctness with Testcontainers-based integration tests.

## EDUCATION

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### B.S. Software Engineering

Córdoba, Argentina

*Universidad Empresarial Siglo 21*

2024 – Expected Late 2026

### Diploma in Java Programming

Buenos Aires, Argentina (Remote)

*Universidad Tecnológica Nacional – FRBA*

2023

### International Bootcamp: Cyberintelligence, Cyberfraud & Emerging Threats

Córdoba, Argentina

*Universidad Siglo 21 / Center for Cybercrime Investigation & Cybersecurity (CIC) - Boston University*

Jun 2026

*Topics: AI-automated fraud, OSINT, social engineering, deepfakes, financial resilience in Fintech ecosystems.*

### B.S. Information Systems Engineering (transferred)

Córdoba, Argentina

*Universidad Tecnológica Nacional – FRC*

2020 – 2023

## SKILLS

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**Languages & Frameworks:** Java (8, 17, 21), Spring Boot, Spring Cloud, Spring WebFlux, Spring Security, Spring Batch, TypeScript, Angular, React Native, SQL, PL/SQL

**Architecture & Design:** Microservices, Hexagonal Architecture, Clean Architecture, Domain-Driven Design (DDD), C4 Model, UML, ADRs, RESTful APIs, SOLID Principles, Design Patterns

**AI & Modern Workflows:** Spring AI, pgvector (Hybrid Search / RAG), Ollama (local LLMs), Spec-Driven Development (SDD), Model Context Protocol (MCP), Claude Code

**Databases & Caching:** Oracle, PostgreSQL, MySQL, Redis, Hazelcast

**Infrastructure & Observability:** Docker, GitLab CI/CD, ELK Stack (Elasticsearch, Logstash, Kibana), Dynatrace, Testcontainers

**Methodologies:** TDD, DDD, Agile (Scrum), Code Review, GitFlow