

Juan Mujica

AI / GenAI Engineer

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PROFILE

AI/GenAI Engineer with 14+ years of software engineering experience, now focused on bringing AI solutions to production. I integrate large language models with retrieval-augmented generation (RAG), embeddings and vector databases, applying prompt engineering, quality evaluation and security best practices. I work with spec-driven development and agentic workflows, on a solid foundation of microservices, APIs, clean architecture, TDD and CI/CD.

EXPERIENCE

AI Engineer · Freelance

08/2025 — Present

Designed and built Umbral, an iOS/Android mobile app with an LLM-based interpretation engine, on a hexagonal architecture.

Implemented RAG with semantic search and document memory over Supabase and pgvector: contextual chat and symbolic analysis.

Built an AI quality evaluation gate using embedding similarity that breaks the build when quality drops below threshold.

Added AI security: guardrails, fail-closed moderation, privacy by default and anonymization.

Automated Google Ads campaigns with Node.js and OpenAI for bid optimization and reporting, integrated into an existing codebase.

TypeScript · Node.js · Fastify · OpenAI · Supabase · pgvector · Qdrant · React Native · Docker

Senior Full Stack Software Engineer · EPAM Systems (Bayer) 06/2019 – 07/2025

Contributed to the migration of a monolithic system to microservices for a global client.

Led requirements analysis, design and definition of the microservices architecture.

Developed end-to-end full stack solutions with automated testing and continuous deployment.

Java · Spring Boot · Kotlin · Node.js · NestJS · Angular · PostgreSQL · MongoDB · Kafka · AWS

Full Stack Developer · Gire 09/2018 – 06/2019

Built full stack logistics solutions with TDD and clean architecture, mentoring junior developers.

Java · Spring Boot · Angular · PostgreSQL · Jenkins

Full Stack Developer · Grinbold 07/2016 – 09/2018

Built marketing and advertising platforms: scalable backends with TDD and Angular frontends.

Java · Spring · Angular · PostgreSQL · RabbitMQ

Full Stack Developer · Huenei (Telecom) 03/2012 – 06/2016

Built web applications in legacy and modern environments, focused on quality through TDD.

Java · JavaScript · jQuery · Smalltalk · Seaside

EDUCATION

Information Systems Engineering
Universidad Tecnológica Nacional – Buenos Aires · 2011–2018

LANGUAGES

Spanish – Native
English – A2 – Elementary

CERTIFICATIONS

Prompt Engineering
AWS – Basic and Advanced (EPAM)
Java and Spring Framework (Educación IT)
Advanced Web Programming (IT College)
Project Management Fundamentals (Educación IT)

TECHNICAL SKILLS

AI / GenAI	OpenAI API · LLMs · RAG · Embeddings · pgvector · Qdrant · Prompt Engineering · AI Evaluation · AI Security · Agentes · MCP · n8n
Languages	Python · FastAPI · TypeScript · Node.js · Java · Kotlin
Backend and architecture	Microservicios · REST/OpenAPI · Fastify · Spring Boot · NestJS · Clean/Hexagonal
Frontend	Angular · React · React Native
Data	PostgreSQL · Supabase · MongoDB · Kafka · RabbitMQ
DevOps and quality	Docker · CI/CD · TDD · AWS · Spec-Driven Development