A portfolio by

José Miguel Gómez

AI Engineer

Based in Lima, Peru · UTC−5

In short

Senior Software Engineer with 6+ years in backend and full-stack development, specialised in AI agents and LLM automation. I build AI systems that come with evidence: enterprise triage and remediation engines, agentic workflows behind human approval, and tools that reconstruct what happened from the data teams already have. Every production is measured on named hardware, instrumented with OpenTelemetry and audited before release. Cloud models are reached through a gateway so cost, provider and policy stay visible; local-first is the default wherever the data is personal. Day to day I work with Java/Spring Boot, Node.js/TypeScript, Python, PostgreSQL, React/Angular, AWS/Azure and LLM agents; LangGraph, MCP and Kafka are tools used in my projects.

Selected project

Designer and operator (personal project)

2026 to present

Autonomous software factory

Designs and operates an autonomous factory that specifies, generates, tests, audits and documents software with LLMs, with human approval of every specification and review of every pull request.

- 374 open-source projects; 82% of 405 work items (334) shipped with no human fix, as of 18 November 2026 (the factory's ledger).
- Model-agnostic: the same pipeline and quality gates on Anthropic, Google Gemini, Vertex AI and DeepSeek.
- Quality gates on every delivery: lint, types, tests with ≥ 80% coverage, secret scanning, dependency audit, independent audit, CI on Linux and Windows.

Experience

Full Stack Engineer

May 2026 to present

Lima (hybrid)

Digitall Software & Service SAC

Built from scratch a distributed corporate platform with AI agents integrated into the development cycle.

- 4-layer distributed architecture (BFF, orchestrators, business microservices, anti-corruption layer): 27 microservices in Java/Spring Boot and Node.js, integrating 5 legacy systems and 2 AWS RDS instances with multiple databases.
- A scalable, decoupled frontend with React/TypeScript micro-frontends, deployed independently per module.
- AI-assisted development: agents in the SDLC for code generation, test automation, technical audits and use-case generation. Built a log-analysis dashboard and integrations with Jira and Microsoft Teams.
- Technical governance: defined and documented the core engineering guidelines (DDD domain modelling, centralised error handling, incident protocols).

Senior Backend Developer

November 2025 to May 2026

Lima

Digitall Software & Service SAC

Led the AI automation of incident triage and the database stability of a platform with 500,000+ users.

- Hybrid automation ecosystem: Python (Playwright) for extraction, LLMs for analysis, JSON flows into Microsoft Power Automate. Triage cut by 92%, from 20 min to under 90 s per incident.
- Main PostgreSQL custodian on a platform with 30M+ daily transactions: query tuning, execution plans, indexes, storage clean-up.
- Technical lead of the incident sprints: user stories, delegation, code reviews.
- Java/Spring Boot backend with Hexagonal Architecture, DDD and CQRS; technical-debt reduction under SOLID and Clean Code.

Back-end Developer

December 2023 to November 2025

Lima

Digitall Software & Service SAC

Backend and critical incidents after the go-live of a platform with 500,000+ users and 9 microservices.

- Resolution of critical development and database incidents to stabilise the platform after go-live.
- New features in Java/Spring Boot (Hexagonal, DDD, CQRS); legacy refactoring under SOLID, with unit tests and technical documentation.

Frontend Developer & UX/UI Designer

August 2024 to December 2024

UPC (freelance)

Responsive, accessible redesign of the Business Administration degree website in Angular, with AI prototyping (Uizard) for user validation.

Front-end Developer

September 2023 to January 2024

Contactotresd (freelance, client in Miami, USA)

Business websites in Angular and TypeScript: UI/UX flows, reusable components, business-rule documentation.

Full-Stack / Back-end Developer Analyst
May 2022 to September 2023

UTP – Digital Transformation

Java/Spring Boot backend (Hexagonal, DDD, CQRS) and React/TypeScript frontend; reusable libraries, unit tests (Object Mother), PostgreSQL, DevOps practices on Azure.

Trainee and internships
September 2020 to April 2022

Tata Consultancy Services, Latin American BYTE, Amber (AWS partner)

- TCS: COBOL under banking business rules on a mainframe (Hercules).
- Latin American BYTE: Spring Boot backend and Angular frontend.
- Amber: microservices and REST APIs integrated with AWS Lambda, SQS and RDS.

Projects (19)

Generated from the catalogue, so this list never drifts from the home page. Each title links to its case page.

Live demo

Enterprise AI system

Veta

Mining compliance that goes live in days, not months

Developer tool

Aforo

One booking contract, four conformant backends and two clients built on it

Application

Before and after

Three website redesigns measured with one reproducible audit

Agentic workflow

Forgeline

From requirement to reviewed PR, governed end to end

Developer tool

Kata hexagonal + DDD

One game jam core on REST, GraphQL and PGlite, measured against layers

Experiment

KataJam frontend katas

Micro frontends and five rendering strategies, each measured against the same tests

Application

Makora

Macros. Clarity. Local.

Developer tool

Mirador

Every repository at a glance, and what needs your decision today

Developer tool

Seedworks

Same seed, same world in C#, C++ and the browser

Creative tech

Trysac Low-Poly Sampler

Every low-poly asset is a seeded Python script for Blender

Developer tool

Vigilo

Know what broke, why it matters, and whether it's yours

Creative tech

XR Showroom

Place low-poly assets in your room or walk among them, no app

Case study

Enterprise AI system

Resolvo

Autonomous incident triage and remediation with human-in-the-loop

Game

HIT YOUR MARK

A 1930s stunt double performs every take, then directs his own cut

Application

Revela

Raw footage to publish-ready reels: planned by AI, rendered on your machine

Agentic workflow

Specgate

Approved specs in, reviewed code out

Application

Sublingua

Live translated subtitles for any call, entirely on your laptop

Enterprise AI system

Tideline

Turn a flood of support tickets into the one incident that matters

In development

Enterprise AI system

Resonar

Your social media agency, with you as the only approver

Education

Master of Science
September 2026 to December 2027

Applied Artificial Intelligence

Golden Gate University (USA)
In progress

Master's
July 2026 to December 2027

Cybersecurity

Universidad Continental
In progress

Master's
February 2025 to March 2028

Software Development and Operations (DevOps)

UNIR (Spain)
Coursework completed, final project pending

Master's
August 2024 to September 2026

IT Management and Digital Transformation

UTP Graduate School
Graduated

Engineering
January 2022 to July 2024

Graphic Design Engineering

Universidad Tecnológica del Perú

Bachelor
January 2018 to December 2021

Software Engineering

Universidad Tecnológica del Perú

Degree
July 2014 to August 2017

Business Administration

Universidad Católica Andrés Bello (Venezuela)

Certifications

Tymcloud, 2025

DevOps Bootcamp

Docker for Java Developers

Refactoring from Code Smells to Clean Code

Skills

Daily stack	Java/Spring Boot, Node.js/TypeScript, Python, PostgreSQL, React/Angular, AWS/Azure, LLM agents
AI and agents	LLMs (Claude, OpenAI, Gemini), CrewAI, RAG, Tool calling, Structured outputs, Evals
AI-assisted development	Claude Code, Cursor, GitHub Copilot
Backend and architecture	Python (FastAPI), Go, PHP/Laravel, Microservices, Hexagonal Architecture, DDD, CQRS, Micro-frontends
Data and cloud	PostgreSQL tuning and optimisation, Redis, AWS (Lambda, SQS, RDS), Google Cloud, Kubernetes
Observability and operations	OpenTelemetry, Grafana, Incident management, Human-in-the-loop
Used in my projects	LangGraph, MCP, LiteLLM gateway, pgvector, Kafka, OpenSearch
Delivery	Astro, Docker, GitHub Actions, JSON Schema

Languages

Spanish	Native
English	C1, EnglishScore Core Skills (British Council, 2026)

Contact

Available for remote roles and B2B contracts

Email	contacto@josemiguelgomez.dev

GitHub	github.com/Trysac
LinkedIn	linkedin.com/in/jose-miguel-gomez-architect
Web	https://josemiguelgomez.dev

The end

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