José Manuel Ligero Márquez

Senior Backend · Full Stack · Software Architect

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PROFILE

Software engineer with over 15 years building complete products, from the backend and cloud infrastructure to the frontend. I specialise in architecture and scalable backends, and combine them with UX design to create systems that are solid, easy to maintain and pleasant to use. I adapt quickly to new stacks and domains, and stay current with applied AI, game engines and Web3.

HIGHLIGHTS

- Production platforms for government, ticketing, streaming, IoT and telecoms, with a focus on high availability.
- Technical leadership as Tech Lead and Lead Backend: hiring, training and mentoring development teams.
- Designed and ran a sharded MongoDB cluster of more than 15 nodes.

EXPERIENCE

Senior Backend Developer · Telefónica

Mar 2025 – present

- Fully modular Node.js application for the Government of Spain, built with NestJS.
- Event-driven architecture and domain-driven design (DDD).

Senior Full Stack Developer · Fever

Mar 2024 – Mar 2025

- Ticketing marketplace in Python (Django and FastAPI) focused on high availability and scaling.
- DDD and CQRS, with strong test coverage and continuous integration and delivery (CI/CD).

Lead Backend Developer · Wuolah

Jul 2022 – Feb 2024

- Backend lead of the growth branch.
- Event-driven, serverless Node.js on AWS Lambda over DynamoDB, DocumentDB and OpenSearch.
- DDD, TDD and SOLID practices across the team.

Senior Backend Developer · Streamloots

May 2021 – Jun 2022

- Node.js backend for streaming partners such as Twitch, Trovo and Kick; React frontend and MongoDB.
- Hexagonal architecture and payment gateways with PayPal and Stripe.

TECHNOLOGIES

Languages
TypeScript, JavaScript, Python, Java, C#, PHP, Go, F#

Backend
Node.js, NestJS, Express, Loopback, Restify, Django, FastAPI, Spring, .NET, Laravel

Frontend
React, Angular, Vue, Astro, WebGL2, GSAP, HTML5, CSS

Data
PostgreSQL, MongoDB, DynamoDB, DocumentDB, OpenSearch, InfluxDB, Oracle, MySQL

Cloud & DevOps
AWS (EC2, ECS, Lambda, SQS), Serverless, Docker, Kubernetes, Terraform

CI/CD
GitHub Actions, AWS CodePipeline, Jenkins, TeamCity

Testing
Jest, Cypress, TDD, BDD

AI
Multi-agent systems, multi-model orchestration, MCP, Claude Code, prompt engineering

Web3 & blockchain
Cryptocurrencies, crypto payments, blockchain integration

Games & 3D
Unity, Unreal Engine, Godot, Blender

CMS
WordPress, PrestaShop, Drupal

EXPERIENCE (CONT.)

Lead Software Engineer · Wellness TechGroup — Jan 2020 – Apr 2021

- Company tech lead: analysis and development of IoT apps, infrastructure and high availability.
- Products in Node.js, Python (Django) and Bash.

Full Stack Developer · PodGroup — Oct 2015 – Sep 2019

- IoT applications and gateways connected to telecom carriers (T-Mobile, O2, Verizon...).
- Owned the platform data layer on MongoDB.

Backend Developer · Segurtel — Mar 2011 – Mar 2015

- Web management applications in PHP, JavaScript, C# and Java Spring: billing, tracking and real-time monitors.
- Online top-up system, Host2Host connections and POS terminal management.

PROJECTS

neoligero.com
Personal site in Astro and TypeScript with custom WebGL2 shaders and GSAP; bilingual and accessible, deployed with Docker and Caddy on its own VPS.

Bubble Maker 2.0
Open-source, dependency-free TypeScript library: 60 fps bubble physics that compress into a honeycomb of hexagons.

Jarvis
Multi-agent system on top of Claude Code: an orchestrator splits the work across subagents and other models in parallel, with persistent memory and a custom MCP server with code-enforced permissions.

Shatterfall
3D flying game built in Godot, with models and scenery created in Blender, plus its own website and trailer.

ARCHITECTURE & METHODS

DDD · CQRS · Event Driven · Hexagonal · SOLID · TDD · Scrum · Kanban · UX/UI

LANGUAGES

Spanish — Native

English — B2 · professional

EDUCATION

Computer Engineering
ETSII, University of Seville · 2005 – 2010
Not completed. Algorithms, computer architecture, physics and mathematics.

Higher Diploma in Computer Applications Development
IES Camas · 2003 – 2005

CERTIFICATIONS

MongoDB DBA
MongoDB University · 2017

AWS Developer
Udemy · 2021

Project management with Scrum
Avante Academy · 2020

Efficiency and simplicity, from data to interface.