

JAVIER GONZÁLEZ ESTARRIOL

Tech Lead · Senior Developer in e-commerce operations: WMS, logistics, warehouse hardware and AWS infrastructure



Portfolio

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01 PROFESSIONAL SUMMARY

Senior Developer and Tech & AI Innovation Lead at DIVAIN (e-commerce fragrance brand with its own factory and warehouse). I own the in-house ERP/WMS (Python, PostgreSQL), the carrier and returns middleware (Node.js) and the AWS infrastructure. In 2026 I took our own order management live, reduced logistics cost with automatic carrier selection, and integrated RFID, wearable scanners, a sorter and a vertical lift module. I build with AI agents and automated verification.

02 KEY ACHIEVEMENTS

-90%

average order-prep time, 2025 vs 2026

99.9%

orders fulfilled after our own WMS went live

4 + 3

carriers and 3PL operators integrated

116

in-app process guides with screenshots

03 PROFESSIONAL EXPERIENCE

Senior Developer · Tech & AI Innovation Lead · DIVAIN TEAM S.L.

11/2023 – present · Astorga (León), Spain

Junior Developer · 11 months → Senior Developer · 10 months → current role since 08/2025

E-commerce fragrance brand with its own factory and warehouse: online sales in Europe, the UK and Mexico, retail stores, marketplaces and 3PLs. I coordinate automation, machinery and transport vendors.

IN-HOUSE ERP/WMS

- **Lead developer of the in-house ERP/WMS**, from purchasing to returns: ~265k lines of Python (Flask, SQLAlchemy, PostgreSQL), ~800 endpoints, 42 scheduled jobs, ~1,560 tests and 95% of 2026 commits.
- **Took our own order management live** (March 2026) on top of a third-party pick-to-light system: pre-allocation with stock reservations, shuttle buffer, scan validation (GS1-128, DataMatrix, SGTIN-96), automatic labels and Shopify fulfillment.
- **Real-time SLA board** on the shop floor, with voice alerts, used by supervisors to allocate staff across picking, bottling and labeling; average order-prep time fell 90% from 2025 to 2026.
- **Purchasing and automatic materials-consumption module**: POs, scanner-based receiving, lots, stock ledger (kardex), valued inventory (WAC/FIFO), three-way match and min-stock auto-replenishment; the bill of materials deducts bottles, caps, boxes and flyers at bottling, labeling and shipping.
- **Role-based access control (9 roles) with an audit log** for all shop-floor staff, plus **116 in-app process guides** with screenshots, shown according to each person's permissions.
- **Production**: per-shift bottling and labeling KPIs, ILUO skills matrix, waste by team, 10 ml vials, jerrycans and tanks, and automatic bottle purchasing.

SHOP-FLOOR AUTOMATION AND HARDWARE INTEGRATION

- **UHF RFID traceability**: dock portal with 3 antennas, an SGTIN-96 tag per bottle and parcel-pallet-order linking, used to claim lost parcels from carriers and log returns arrivals.
- **Shipment validation and sorting v2.0**: kiosk-mode parcel-to-pallet scanning by zone and carrier, self-printing ZPL pallet labels, RFID-confirmed dispatch and multi-parcel labels read by the sorter.
- **Pick-to-light replenishment with wearable scanners** (Windows HID and WebSocket bridges): cartridge transit window cut from 15 to 3 minutes.
- Integrating an **automated vertical lift module (VLM)** through its REST API, with an in-house simulator so it arrives tested at delivery: the WMS assigns slots and guides operators with the LED bar.
- Integrated a **robot arm** with the labeling machines: it loads perfumes into cartridges and links each one to its cartridge, running two machines with different products in parallel, so warehouse staff no longer scan by hand.

LOGISTICS, CARRIERS AND POST-SALE

- **Node.js and MongoDB shipping middleware**: labels and tracking for 4 domestic and international carriers, pickup points included, with automatic cheapest-rate selection including surcharges, which lowered logistics cost.
- **Automated audits that surface money**: a carrier-invoice comparator that checks every invoice against actual shipments and lists claimable discrepancies, and a refund review that uncovered overpayments, now blocked by an automatic rule.
- **Automated returns**: multi-carrier return labels, auto-refund 72 h after drop-off, 12-month store credit through a Shopify Customer Account extension in 13 languages, and an anti-abuse blacklist fed by warehouse inspection.
- **In-house shipment tracking replacing a SaaS**: normalized statuses, estimated delivery dates, stalled-shipment detection and proactive multilingual emails; API for customer service and webhooks for the mobile app.
- **Channels and 3PLs wired into the WMS**: retail stores, TikTok Shop, Miravia, Amazon and logistics operators in the UK, Mexico and the US, with weight checks and webhook-driven packing lists.

INFRASTRUCTURE, RELIABILITY AND SECURITY

- I run production on **AWS EC2 (Ubuntu)**: nginx, uWSGI, Supervisor, PM2 (8 Node.js services), Docker (PostgreSQL 16, Redis 7, MongoDB 7), ZeroTier VPN to the plant and CloudWatch, UptimeRobot and Zabbix; 2 servers, 15+ services.
- Unblocked a promo with thousands of pending orders (1 min per validation) over one weekend: multiple workers, Redis locks and Socket.IO sticky sessions. Also removed N+1 queries, added indexes and cut a backfill from 10 h to 3–4 h.
- Security: code audits that closed an unauthenticated API and secrets in the repository; HMAC webhooks, API keys and rate limiting; RLS audits of other teams' Supabase apps and a GDPR audit of the storefront.

DATA, AI AND PLANNING

- **AI analytics assistant** inside the ERP: tool-calling LLM over PostgreSQL in read-only transactions, PII masking, blocked tables and per-query cost limits; produces PDF and Excel reports.
- **Black Friday 2026 capacity plan**: SKU-level demand simulation with 0–50% growth scenarios, staff needed per shift, bottling, labeling and picking capacity, and revenue at risk, presented to management.
- **AI-assisted engineering with guardrails**: custom Cursor agents, rules and hooks (verifier loops, plan before implementing, tests first) with CI as the quality gate.

TECHNICAL MANAGEMENT AND VENDORS

- Technical counterpart to the CEO: decision reports (vertical lift purchase, labeling-machine audit, boxes for a future robot arm, Black Friday capacity) comparing cost, maintenance and performance.
- Vendor coordination across technology suppliers and carriers: account setup, API contracts, integration testing and incident escalation, with IT-to-IT technical documentation.

Freelance Full-Stack Developer · Investment holding (client)

01/2026 – present · Remote

- **Holding corporate website** (Next.js 16 on Vercel): lead capture into Supabase with private attachments and signed URLs, /admin panel, anti-spam (Turnstile, honeypot and rate limiting) and a security, cookie and GDPR audit.
- **Real-estate co-investment tracker**: deal extraction from Discord, scoring classifier validated by backtest (92 → 39 deals flagged to invest), insights page, 72 tests and RLS on 13 Supabase tables (tRPC, Drizzle).

Supervisor · Grupo Dani García (restaurants)

05/2023 – 11/2023

- Led the dining-room team: task allocation, goals and performance reviews; introduced management tools and sales analysis to improve profitability.

Chef de Rang · Grupo Dani García (restaurants)

09/2019 – 04/2023

Freelance Web Developer · alongside hospitality work

2014 – 2019

Waiter · Casa Maragata

04/2014 – 08/2019

04 TECHNICAL SKILLS

Domain: WMS, picking and pre-allocation, replenishment, ABC slotting, stock ledger, BOM, GS1 traceability, reverse logistics, SLA

Warehouse hardware: UHF RFID (SGTIN-96), wearable scanners, vertical lift module (VLM), robot arm, pick-to-light, sorter, thermal printers (ZPL)

Integrations: Shopify (Admin REST/GraphQL, webhooks, Customer Account UI Extensions), carrier APIs, marketplaces and 3PLs

Backend and APIs: Flask (SQLAlchemy, Alembic, Flask-RESTX, Socket.IO, APScheduler), Express, Next.js, tRPC; REST, SOAP, SFTP, HMAC webhooks, idempotency

Data: PostgreSQL 16 (indexing, locking, transactions), MongoDB, Redis, Supabase (RLS), pandas and NumPy

Infrastructure: AWS EC2, Linux (Ubuntu), nginx, uWSGI, Supervisor, PM2, Docker, ZeroTier, GitHub Actions, CloudWatch, UptimeRobot

Applied AI: tool-calling LLMs with SQL guardrails; Cursor and Claude Code (agents, rules, hooks and verifier loops)

05 SOFT SKILLS

Business and executive communication · Ownership and autonomy · Problem solving under pressure · Team leadership and training · Vendor management and negotiation · Results orientation

06 EDUCATION

Full-Stack Development Bootcamp · ISDI Coders · 04/2023 – 07/2023

Higher Technician Diploma in Multiplatform Application Development (DAM) · CFP María Auxiliadora · 09/2012 – 04/2014

Computer Engineering (not completed) · University of León · 2011 – 2012

07 LANGUAGES

Spanish: native · English: advanced (full professional proficiency)