Valter Nunez

Backend & Distributed Systems Engineer

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Summary

Backend engineer with five years on high-traffic e-commerce: event-driven, fault-tolerant systems. Decoupled *83%* of revenue-critical sales flows from the ERP and cut total shipping spend *~78%* with automated least-cost routing. Now studying **MSc Data Science at LSE** in London. Eligible for the UK Graduate visa (18 months, no sponsorship required); seeking Skilled Worker sponsorship to stay long-term.

Experience

Backend Engineer — **Sep 2021 – Mar 2026**

ZeBrands — high-traffic e-commerce — *Remote, Mexico*

- Co-architected and built **OZ**, an event-driven platform that sustains online and retail sales through ERP outages, decoupling *83%* of revenue-critical sales flows from synchronous ERP calls; failure-mode analysis projected a *91%* reduction in sales-blocking downtime (FastAPI, PostgreSQL, RabbitMQ, Redis); now live across *~195 stores* (Mexico, expanding to Brazil), sustaining *~MX$102M* in sales over the nine-day Hot Sale peak.
- Co-designed and built shipping middleware unifying multi-carrier APIs (FedEx, DHL) with automated least-cost routing, cutting total shipping spend *~78%* (≈ $500K USD/yr).
- Maintained existing client-facing microservices (including extracting review analytics into its own service), ERP modules, and GraphQL APIs (Frappe, TypeScript); stood up Grafana logging/observability that cut issue-detection and response times.
- Mentored a junior backend developer; contributed to architecture reviews and backend coding standards across the client and promotions teams.

Co-Founder & Developer — **2017 – 2019**

Laiter — software studio — *Mexico*

- Shipped client web applications end to end (Django, JavaScript) and built the early usage-analytics dashboards customers ran decisions on; owned deployments and production support.

Selected Projects

- **Nexus** — sole architect of a multi-tenant SaaS for property administration: double-entry finance engine, Stripe Connect (charges, SPEI, payouts, disputes), per-tenant RBAC, an LLM assist (Gemini) with usage metering, rate limits, and structured output, plus a Next.js admin dashboard and resident PWA. Built solo via an orchestrated multi-agent dev workflow (Claude Code, git worktrees). In active development (FastAPI, async SQLAlchemy).
- **Refract** — agent-first responsive-screenshot tool: renders a URL at N viewports and returns screenshots plus structured layout findings as agent-actionable JSON; on npm as an **MCP server**, CLI and Node library (TypeScript, Playwright).
- **World Cup 2026 momentum** — natural-experiment data pipeline (local scrape → GitHub Actions → Pages) that regenerated daily.

Education

MSc Data Science — **2026 – 2027**

London School of Economics (LSE) — *In progress, London*

B.S. Computer Science & Technology — **2016 – 2021**

Tecnológico de Monterrey (ITESM) — *Avg 90/100*

Semester abroad at RMIT University, Melbourne (Avg 94/100). IBM Data Science Professional Certificate (in progress).

Technical Skills

Languages: Python, TypeScript, JavaScript, SQL (familiar: Go)
Backend: FastAPI, Django, GraphQL, Celery, Frappe/ERPNext
Data & Infra: PostgreSQL, Redis, RabbitMQ, MongoDB, Docker, Grafana, GitHub Actions
Data Science: pandas, NumPy, scikit-learn, PyMC, Bayesian inference, Quarto
AI / LLM: LLM integration (Gemini), usage metering & rate-limiting, structured output, agent-orchestrated development
Practices: Event-driven & microservice design, testing, observability, code review
Languages spoken: Spanish (Native), English (C2), German (A2), Italian (A1)