
Alejandro Joel Torres González

Senior Full-Stack Engineer · Fintech, Healthcare, E-commerce · AWS Certified

(57) 320 212 1745

alejandrojoeltorres@gmail.com

Senior Software Engineer with 11 years of production experience across fintech, healthcare, and e-commerce. Full-stack depth spanning Vue 3, Nuxt, and TypeScript on the client, Go (concurrency, async pipelines), Node.js, and Python (FastAPI) on the server, and AWS in production — AWS Certified Developer Associate. Experienced with event-driven orchestration, server-side architecture, and system-to-system data integration against legacy platforms, from IBM DB2 mainframes to retail ERPs.

Track record of driving architectural decisions through written technical proposals and turning unreliable services into trustworthy ones — most notably raising a critical Go service's SLO from ~60% to a sustained 95–98% by resolving race conditions in concurrent processing and rebuilding its failure handling. Also ship my own products end to end: a real estate marketplace SaaS and a desktop app on the Microsoft Store.

Core skills

- **Domain Experience:** Fintech (money-movement, refunds, internal financial tooling), Healthcare (payment portals, customer onboarding, RBAC, HIPAA-adjacent), E-commerce (Magento 2 enterprise, ERP integrations, checkout)
- **Frontend:** Vue 3 (Composition API), Nuxt 3, TypeScript, React, JavaScript, HTML, CSS, SASS, Single-SPA microfrontends
- **Backend:** Go (concurrency, goroutines, channels, async pipelines), Python (FastAPI, Flask), Node.js, PHP (Laravel, CodeIgniter)
- **Databases:** PostgreSQL, MySQL, MariaDB, SQL Server, Oracle (PL/SQL), IBM DB2 (integration)
- **APIs & Architecture:** GraphQL, REST, RBAC, Clean Architecture, Microfrontends (Single-SPA), Event-driven workflows (Netflix Conductor + AWS Lambda), API Design
- **Cloud & DevOps:** AWS (Certified Developer Associate — Lambda, EC2, S3, CloudFront), Cloudflare Pages, Google Firebase, Docker, Kubernetes, GitHub Actions (CI/CD)
- **AI / LLM:** Production LLM integration (OpenAI, Anthropic) for automation, search, and user workflows; prompt engineering; retrieval workflows
- **E-commerce Platforms:** Magento 2 (custom modules, multi-site, ERP integration), Auth0
- **Collaboration & Leadership:** Technical mentoring, code reviews, technical interviews, written architectural proposals (ADRs), production on-call, post-mortems, Agile/Scrum

Professional experience

Zaelab (formerly Techmates Group) — Lead Software Engineer

Jan 2023 – Present | Remote (USA)

Lead engineer for multinational clients including 3M Health / Solventum and Doosan. Primary engagement on Solventum's Payment Portal and Customer Onboarding platform — serving dental clinics, healthcare providers, and distributors for invoice payments and product ordering. The platform progressively migrates legacy data from **IBM DB2 into 3M's VIAX ecosystem through GraphQL and event-driven orchestration workflows.**

- **Worked within an event-driven orchestration layer** (AWS Lambda + Netflix Conductor, TypeScript) coordinating multi-step processes against IBM DB2 — the legacy system of record — designing the integration contracts and failure handling so users never block on mainframe latency.
- **Authored the architectural decision records** that shifted the platform to a Nuxt 3 SSR root-orchestrator pattern, replacing a less secure client-side SPA. The new architecture moved secrets and VIAX/reCAPTCHA token handling **server-side**, enforced RBAC at both the route and **GraphQL proxy** layers, and preserved compatibility with existing Single-SPA microfrontends.
- **Designed and implemented server-enforced RBAC** using Nuxt route and server middleware resolving roles and permissions from VIAX GraphQL on the server, denying restricted routes and API operations before render — replacing client-only checks.
- **Built a bulk import service** for internal user provisioning, replacing a manual one-by-one onboarding process and removing a recurring operational bottleneck.
- Automated **CI/CD pipelines** with GitHub Actions and Cloudflare Pages across three production applications, standardizing deployments.
- **Lead engineer on the Payment Portal and Customer Onboarding applications** (separate internal-staff and public-facing surfaces), built with Nuxt 3, TypeScript, and GraphQL.
- **Led code review and technical mentorship; collaborated across regions with backend, QA, UX, and product teams.**
- **Earlier in the engagement, contributed as a Vue 3 (Composition API) developer** to a Doosan quoting application built on Clean Architecture principles, owning a specific module end-to-end and participating in release operations.

Stack: TypeScript, Node.js, GraphQL, AWS Lambda, Netflix Conductor, Nitro (server middleware, server routes), IBM DB2 integration, GitHub Actions, Cloudflare Pages, Nuxt 3, Vue 3, Single-SPA, Clean Architecture

MercadoLibre (Mercado Pago) — *Senior Software Engineer*

Mar 2021 – Jan 2023 | Remote / On-site (Colombia)

Senior engineer on Mercado Pago's internal applications team — building React + Go tooling used daily by Mercado Libre's operations, support, and finance teams to manage refunds, internal money-movement, and cross-application data lookups.

- **Took over technical leadership of "Cashbacks", a critical refunds and gifting platform**, after the original Go backend engineer left. Originally hired as the frontend engineer, I picked up the Go backend out of necessity and led the technical recovery of the app end-to-end
- **Raised SLO from ~60% to a sustained 95–98%** over several months by diagnosing and fixing widespread Go panics caused by race conditions in concurrent goroutines, introducing proper mutex usage, rebuilding error handling on the React frontend, and adding read indexes to multi-million-row tables that were degrading query performance
- **Owned end-to-end the development of an annual budget module** on top of the now-stable Cashbacks platform — covering both Go backend and React frontend
- **Proposed and built a shared Go library for the internal approvals API**, standardizing how every internal app requested approvals — eliminating duplicated integration logic and inconsistent error handling across the platform
- **Built async/concurrent Go services** processing daily batches of 20k–40k records against tables with millions of rows, integrating with multiple internal Mercado Pago APIs — work that built deep practical experience in Go concurrency patterns (goroutines, channels, mutex)
- **Participated in production on-call rotation**, responding to incidents at any hour with hotfixes and authoring post-mortems for several outages — including ones I personally led to root-cause and resolution
- **Contributed to OneSource (cross-application lookups) and Transfer (internal transfers)** as part of the same React + Go internal-platforms ecosystem
- **Acted as technical reference (referente) for a 4-person team that scaled to multiple 4–5 person squads**, mentoring engineers and participating in technical hiring interviews

Stack: React, TypeScript, Go (concurrency-heavy: goroutines, channels, mutex), PostgreSQL/MySQL, internal MELI infrastructure, RESTful APIs

Summa Solutions — *Full-Stack Engineer*

Jul 2020 – Mar 2021 | Remote (Argentina)

Full-stack engineer in a 4–5 person team building and maintaining the Magento 2 e-commerce platform for **Tienda Naranja**, one of Argentina's largest online marketplaces and a direct competitor to Mercado Libre.

- **Customized the Magento 2 checkout flow** — one of the most complex areas of the Magento ecosystem — to support the client's specific UX and business requirements, including multi-step adjustments and custom validations
- **Built a Pickit integration for the checkout** that displayed pickup points on an interactive map, allowing customers to select a physical pickup location as a shipping option
- **Integrated Algolia search into the storefront**, customizing the indexing pipeline through Magento event hooks to adjust how specific product attributes were read and pushed to the index — supporting the client's product discovery and faceted search experience
- **Implemented Auth0-based Single Sign-On (SSO)** integrated with custom Laravel services, unifying authentication across the client's e-commerce and internal applications
- **Sustained zero-incident operation through three consecutive high-traffic events** — Hot Sale, Black Friday, and Cyber Monday — Argentina's most demanding e-commerce traffic peaks of the year, contributing to the platform's stability during 10x+ traffic spikes
- **Owned several Magento 2 minor-version upgrades** (multiple cycles within the 2.1.x branch and beyond), coordinating module compatibility, regression testing, and production rollouts
- **Executed production deployments on AWS + Kubernetes** as part of the team's release rotation, building on AWS experience accumulated since 2018 to operate confidently within the existing CI/CD pipeline
- **Developed promotional landing pages** for marketing campaigns, working closely with the client's marketing and design teams
- **Wrote Python automation scripts** to streamline operational and reporting workflows for the team
- **Participated in Agile ceremonies, code reviews, and technical documentation** as part of the engineering team

Stack: Magento 2, PHP, JavaScript, Laravel, Auth0, Algolia, AWS, Docker, Kubernetes, Python

Jul 2018 – Apr 2020 | Bogotá, Colombia

Sole developer for the company's full tech operation, building and operating every web product end-to-end across the parent company and its startup venture **Boho Food Market** — a multi-vertical gastronomic concept combining a fresh-food market (produce, fish, butchery, bakery, wine cellar), restaurants on upper floors, and **Boho Expo**, a curated marketplace for independent artisans (clothing, accessories, jewelry).

- **Built and operated two production e-commerce sites end-to-end** — bohofoodmarket.com and bohoexpo.com — both as multi-website, multi-language (EN/ES) Magento 2 platforms with 20k+ SKUs
- **Designed and developed multiple Magento 2 custom modules** covering ICG ERP integration (read and write), custom checkout flows, theme overrides, PayU payment gateway integration, and automated AWS static content uploads
- **Built a bidirectional integration with ICG** — a widely-used retail ERP in Colombia that served as the source of truth for products, inventory, and pricing — running daily sync jobs from ICG into Magento, and pushing new orders from Magento back into ICG to keep both systems aligned in near-real-time
- **Built an internal business intelligence tool in React + Python (Flask) + Microsoft SQL Server**, providing executives and operations teams with daily/monthly views of best-selling products, purchase and sales movements, and trend graphs
- **Automated executive reports** using Python + Pandas, processing daily sales and purchase data and delivering summaries directly to managers' inboxes — replacing manual spreadsheet work
- **Built a Vue.js student-housing landing page and lead-capture system** for a sister business, with submissions automatically written to Google Sheets via the Drive API for the team to follow up on
- **Owned the entire AWS infrastructure**: EC2 instances for application hosting, S3 for static assets and product imagery, CloudFront CDN for global delivery, plus deploy and maintenance — designing and running it solo from day one
- **Trained non-technical teams** (operations, marketing, store managers) on using the platforms, providing day-to-day operational support as the only technical contact in the company

Stack: Magento 2, PHP, Vue.js, React, Python (Flask, Pandas), Microsoft SQL Server, MySQL, AWS (EC2, S3, CloudFront), PayU, Google Drive API, ICG ERP

Earlier Experience (2015–2018)

Web Developer — Develoop Software (Spain) · Corporación ALBA · Proseguros

- Developed and maintained e-commerce platforms using Prestashop, Magento (1 and 2), WooCommerce, and WordPress — including a Magento 2 storefront for a marine hardware company with 257k+ products online.
 - Built backend systems with PHP (CodeIgniter), Node.js, and SQL databases; integrated with the Amazon Business API for product information uploads.
 - Worked with Oracle PL/SQL, corporate intranets, and marketing automation for a financial-services client.
-

Education

Américo Vespucio Technological Institute (IUTAV)

Senior Computer Technician — 2012–2015

El Cristo Private Educational Unit

Bachelor of Science — 2005–2010

Certifications

AWS Certified Developer – Associate

Amazon Web Services · Issued Mar 2026 · Valid through Mar 2029

Certified Senior Vue.js Developer

Vue School · Issued Jan 2025