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# Alejandro Joel Torres González

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

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Senior Full-Stack Engineer with 11 years of production experience across **e-commerce, fintech, and healthcare** — currently leading frontend on a Solventum (3M Health) payment and onboarding platform, previously a senior engineer on Mercado Pago's internal money-movement tooling, with deep earlier roots in high-volume Magento 2 e-commerce platforms. Frontend specialist in Vue 3, Nuxt, and TypeScript, with hands-on backend depth in Go (concurrency, async pipelines), Python (FastAPI), and PHP. AWS Certified Developer Associate. 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%.

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## 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

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## Professional experience

### Techmates Group (TMG.io) — Lead Front-End Engineer

Jan 2023 – Present | Remote (USA)

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

- **Authored the architectural proposals that shifted the team toward a Nuxt 3 SSR root-orchestrator pattern**, replacing a less secure Vue 3 + SystemJS SPA setup. The new architecture moved secrets and VIAX/recaptcha token handling server-side, enforced RBAC at both route and GraphQL proxy layers, and preserved compatibility with existing Single-SPA microfrontends by embedding them inside the SSR host
- **Lead frontend engineer on the Payment Portal and Customer Onboarding apps** (separate internal-staff and public-facing applications), built with Nuxt 3, Vue 3, TypeScript, and GraphQL
- **Designed and implemented server-side RBAC** using Nuxt route + server middleware that fetches roles and permissions from VIAX GraphQL on the server, denying restricted routes and APIs before render — replacing client-only checks
- **Built a bulk import module for internal user accounts**, replacing a manual one-by-one onboarding process and removing a recurring operational bottleneck for Solventum's onboarding team
- **Integrated the frontend with an event-driven backend** (AWS Lambda + Netflix Conductor in TypeScript) that orchestrates multi-step processes against IBM DB2 — the legacy system of record — without forcing users to wait on slow mainframe responses
- **Automated CI/CD pipelines with GitHub Actions and Cloudflare Pages** for the Payment Portal, Customer Onboarding form, and the internal staff form — standardizing deployments across the three applications
- **Led code review and technical mentorship for frontend engineers** on the team; 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:** Nuxt 3, Vue 3 (Composition API), TypeScript, GraphQL, Nitro, Single-SPA, AWS Lambda, Netflix Conductor, GitHub Actions, Cloudflare Pages, IBM DB2 integration, Clean Architecture

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## 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

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## 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

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## Sole Developer / Founding Engineer — Opera Inversiones Urbanas S.A.S

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

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## Earlier Experience (2015–2018)

### Web Developer — Developoo 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.

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## 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