

Alex Herrera Manzanares

Full Stack Software Developer · Web and Mobile

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Available for a university internship · Jan – Apr 2027

PROFESSIONAL SUMMARY

Full Stack Software Developer focused on web and mobile applications with AI built in. Experienced in designing scalable corporate platforms from the client to the database, over relational and NoSQL engines. Ships every release with automated test coverage, continuous deployment (CI/CD) and handover documentation.

TECHNICAL SKILLS

Programming Languages:	TypeScript, Python, SQL, Java, Kotlin.
Frontend:	Next.js, Astro, Tailwind CSS.
Backend:	Node.js, NestJS, REST APIs, WebSockets.
Mobile:	React Native (Expo), Android Studio, SQLite.
Databases:	PostgreSQL, MySQL, SQL Server, MongoDB, SQLite, Supabase, Firebase, Redis, Drizzle.
Cloud and Deployment:	Google Cloud Platform, AWS, Azure, Vercel, Render, Docker.
Version Control and CI/CD:	Git, GitHub Actions.
Testing:	Vitest, Playwright, Jest.
Generative AI:	LLM, RAG, MCP.
Security:	Access control (RBAC), session management, input validation, CSP, secrets management.

PROFESSIONAL EXPERIENCE

Software Developer Jul 2026 – Present

Intercargo Panamá (via Kaizen Apps CR) · project-based

- Built the corporate platform end to end: public site, internal portal and the Due Diligence and Accounts Receivable modules, from design to production release.
- Covered the system with 2,243 unit tests and 27 end-to-end (E2E) suites, including automated accessibility checks.
- Automated the Due Diligence process by integrating generative AI models for document reading, leaving validation and critical decisions entirely to code logic.
- Streamlined accounts receivable through a virtual assistant on WhatsApp Cloud API, enabling identity verification and client-driven payment management in real time.
- Migrated the corporate web infrastructure from WordPress to Next.js (14 pages), cutting technical debt by removing 81% of unused assets and implementing modern accessibility standards.
- Deployed the infrastructure on Google Cloud Run using containers, managing continuous builds with Cloud Build, credential storage in Secret Manager and mandatory TLS encryption to the database.

Technologies: Next.js 16, React 19, TypeScript, Node.js, MySQL / Cloud SQL, Cloud Run, Cloud Build, Secret Manager, Docker, Vitest, Playwright, WhatsApp Cloud API, Gemini.

Web Developer Jan 2026 – Present

Star Cargo Service · project-based

- Designed and deployed a custom CRM system to centralize logistics and operational management, replacing manual spreadsheet-based workflows.
- Automated the sales process and real-time data synchronization, eliminating manual file reconciliation and speeding up the commercial team's operations.
- Monitored the Supabase Security Advisories and scoped role-level permissions over the PostgreSQL tables.

Technologies: Next.js, React, TypeScript, Tailwind CSS, NestJS, Node.js, Supabase, PostgreSQL, Vercel, AppSheet, Apps Script.

Software Developer and Tier 2 Technical Support

Jan 2024 – Present

Kaizen Apps CR · full-time

- Built four custom internal systems and the corporate portal, from requirements gathering to deployment and production maintenance.
- Added features and fixed defects in the HR ERP the company sells under license.
- Administered the continuous integration (CI/CD) pipelines on GitHub Actions, automating the AI tooling across the team's repositories.
- Provided Tier 2 technical support, running root cause analysis at code level on the systems built in-house and resolving production defects.

Technologies: Astro, React, Next.js, Angular, TypeScript, NestJS, AppSheet, Apps Script.

SELECTED PROJECTS

kaizenapps.net, bilingual corporate site

Jan – May 2026

Kaizen Apps CR

- Migrated and redesigned the corporate site on Astro with hybrid rendering, resolving 15 routes across Spanish and English from a single source of truth.
- Wrote the booking form against a custom endpoint that validates the input, verifies the captcha server-side and sends the notification email.
- Set the site's security headers: CSP, HSTS, framing control and permissions policy.

Technologies: Astro 5, React 19, TypeScript, Tailwind CSS, Netlify, Cloudflare Turnstile, Resend.

Seiri, offline-capable attendance mobile app

May – Aug 2026

Kaizen Apps CR

- Shipped a mobile attendance app that works offline, storing entries on the device and syncing them in the background once the connection returns.
- Implemented identity verification for each entry through photo capture and geolocation.
- Stood up the Next.js backend on Render: 14 API routes against MySQL over TLS, token authentication and rate limiting.

Technologies: React Native (Expo), TypeScript, SQLite, background sync, Next.js (API), MySQL.

Bus Tracking, real-time public transit tracking

May – Jul 2026

Integrador III project · team of five

- Worked by user stories, taking each one end to end across the Express API and the React Native mobile client.
- Designed the interface and visual language of the mobile and web clients, which carry the three application roles: passenger, driver and administration.
- Wrote unit tests and tracked defects as issues, inside a flow with code review and protected branches.

Technologies: React Native (Expo), TypeScript, Express 5, Supabase / PostgreSQL, WebSocket, Jest, Docker.

EDUCATION

Bachelor's Degree in Information Technology Engineering. Universidad Técnica Nacional.

Jan 2024 – Present.

COURSES AND CERTIFICATIONS

Introduction to Cybersecurity. Cisco Networking Academy.

Jul 2026.

Google Cloud Computing Foundations. Google Cloud, in progress.

Aug – Dec 2026.

LANGUAGES

Spanish: Native.

English: Advanced, PIT-UTN certified.