Juan Mansilla

SOFTWARE ENGINEER | BACKEND & CLOUD

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SUMMARY

Software Engineer with 4+ years in the software industry, working for companies across the US, Colombia, and Argentina. Designs and delivers tourism ERPs, multi-tenant SaaS platforms, and real-time systems with live MercadoPago payments, WebSockets, BullMQ job queues, and Prometheus monitoring. Led a production database engine migration (200 tables, MyISAM→InnoDB), integrated AWS Secrets Manager into a .NET ERP, and hardened legacy PHP systems against SQL injection. Designs, develops, and leads technical coordination of engineering teams, with end-to-end ownership: from architecture and data modeling to production deployment.

TECH STACK

Node.js | NestJS | Next.js | TypeScript | PostgreSQL | MySQL / MariaDB | Prisma | Redis | React | React Native | PHP | C# / .NET | Claude Code | OpenCode | AI Agents | MCP

TOOLS

Docker | Nginx | AWS (EC2, RDS, S3, SES, Secrets Manager) | Cloudflare | GitHub Actions | BullMQ | Socket.io | Prometheus | MercadoPago | Fabric.js | Jest | Playwright | Swagger

EXPERIENCE

Software Engineer (SSR) DynnamoCrypt · Mar 2026 - Present

- Led the full database engine migration of the Strix ERP (PHP): 200 tables from MyISAM to InnoDB on MariaDB, validated in staging and migrated table-by-table to production with backup checkpoints.
- Hardened SQL injection vulnerabilities in Portix and Strix, implemented query pagination, and optimized slow queries with targeted index creation.
- Replaced Apache with Nginx across legacy projects for improved performance and configuration control.
- Integrated AWS Secrets Manager into the URGARA Infinity ERP (.NET Core), assembling connection strings from individual components and eliminating credentials from the environment.
- Dockerized the Infinity ERP for consistent local development and staging environments.
- Fixed a race condition in production (SetNumeroAfiliado) and a data integrity issue causing duplicated records in affiliate numbering.
- Currently leading the EC2-to-RDS migration to improve database reliability, automated backups, and scalability.
- Contributes to architecture decisions and code reviews for a portfolio of 8+ clients: URGARA, Bilbao, GlobalTrade, Bahía Ambiental, Lanchas del Sur, among others.

Software Engineer & Technical Coordinator (Freelance) Kheiron Company S.A.S. · May 2024 - Mar 2026

- Built Orion Tour, a full tourism ERP with reservation system, live MercadoPago payment integration, quotation engine, commission tracking, accounts payable/receivable, invoicing, credit notes, PDF/Excel export, QR vouchers, role-based access control, and a custom Fabric.js flyer editor — shipped to production with 1 active client.
- Designed and built Luriam, a custom platform for a massage branch in Mexico (luriam.com.mx): real-time scheduling via Socket.io, appointment and client management, BullMQ job queues, AWS SES transactional email, and web push notifications.
- Designed and implemented AresOne, a multi-tenant dropshipping SaaS platform where each client manages their own storefront; currently in beta testing with the first early adopter.
- Implemented DDoS protection using Cloudflare as a proxy, CDN with R2 for static assets, and multi-layer rate limiting (Nginx + application level).
- Set up CI/CD pipelines with GitHub Actions and standardized engineering practices for the team.
- Led technical coordination of a team of 3 developers, conducted PR reviews, and managed workflow via GitFlow.
- Designed entity-relationship diagrams and full system architecture proposals for a construction ERP (Argos).
- Developed enterprise apps using NestJS, Next.js, React, TypeScript, GraphQL, React Native, Apollo Client, and Firebase.

Junior Full-stack Developer DevLabs · Jan 2024 - May 2024

- Developed cross-platform iOS and Android applications using Next.js, React Native, TypeScript, and MaterialUI.
- Integrated real-time push notifications with Pusher and background geolocation tracking.
- Built the backend server with integrated Swagger API documentation.

Junior Full-stack Developer Covery (Insurtech) · Jul 2023 - Jan 2024

- Built a full-stack insurance platform using React, Express, and MySQL.
- Refactored backend services improving scalability and reducing page load time.

- Implemented UX/UI components that improved user retention.

Full-stack Developer (Internship) Mercado de Residuos · Sep 2023 - Oct 2023

- Built a B2B commercial platform connecting waste generators with recycling companies, using React, Apollo GraphQL, Sequelize, and PostgreSQL.
- Led a team of 8 developers, coordinating sprints and maintaining consistent communication.
- Debugged and delivered improvements that increased system stability.

PROJECTS

AI Agent System https://kheiron.dev

Design and operation of AI agent systems: an in-house AI-assisted development stack (Claude Code + OpenCode) and AI bots deployed to production as client products.

Orion Tour — Tourism ERP https://oriontour.cloud

Multi-tenant ERP for tourism agencies: end-to-end management of sales, operations, and finance. Covers products and circuits, quotation, reservations, invoicing, commissions, accounts payable/receivable, and reconcilable accounting reports — from sale to monthly supplier close-out.

Luriam — Appointment & Client Platform https://demo.luriam.com.mx

Custom platform for a massage branch in Mexico: real-time appointment and client management, deployed at luriam.com.mx.

AresOne — Multi-tenant Dropshipping SaaS

SaaS platform where each client gets their own storefront optimized for conversion funnels, currently in beta with first early adopter.

Numaia — Gamified Educational App https://numaia.online/

Mobile app for gamified math education for children, with an integrated AI tutor and a focus on Colombian biodiversity.

B2B Waste Marketplace

Commercial B2B platform connecting waste generators with recycling companies, facilitating sustainable waste management.

Family Bunny — Published Puzzle Game https://marcosmansilla.itch.io/family-bunny

3D voxel puzzle game developed solo and published on itch.io for HTML5 and Android.

LANGUAGES

- Spanish — Native
- English — B2 Intermediate
- Portuguese — B1 Intermediate