

Joschua Barahona Gómez

Fullstack Developer & Software Architect

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SUMMARY

Fullstack developer with end-to-end ownership (design → deployment) of multi-tenant SaaS products. Focused on AI automation, third-party integrations, and internal tooling that drives measurable business impact.

EXPERIENCE

TreeCodes — Fullstack Developer & Software Architect | 2024 – present

Agenda IA — Conversational WhatsApp Scheduling SaaS

- Built conversational bot (Claude AI + WhatsApp Cloud API) for natural-language bookings; multi-tenant architecture with isolated MySQL per client and two-way Google Calendar sync.
- Stack: Node.js · Express · Redis · React · TypeScript · Vite; Linux VPS with Nginx + PM2 + Let's Encrypt.

POS Tree Codes — Point of Sale System (Costa Rica)

- Built Java 21 Swing + Spring Boot desktop app with electronic invoicing (Costa Rica DGT API), multi-terminal hardware token auth, and executive reporting — live in production with paying clients.
- BCrypt auth, CI/CD via GitHub Actions + Maven, digitally signed artifact distribution.

License Manager — SaaS Operations Panel

- Built transactional tenant provisioning in ASP.NET Core 9 (Clean Architecture + CQRS + MediatR): creates isolated DB, imports schema, delivers .env with automatic rollback on failure.
- 4-layer security (Cloudflare Access + IP whitelist + BCrypt + master password), hardware token auth + full audit log; manages licenses for 2 SaaS products.

TreeCodes Hub — Desktop Ecosystem Launcher

- Java 21 + Spring Boot launcher with per-artifact digital signature verification before install, online licensing that activates/suspends/revokes access by subscription, and automated signed update distribution.

TECHNICAL SKILLS

Frontend: React · TypeScript · Astro · Tailwind CSS · Vite · Java Swing

Backend: Node.js · Express · Spring Boot · Java 21 · C# · ASP.NET Core · .NET 9 · Flask · Python

Databases: MySQL · Redis · multi-tenant architecture · database design

Infrastructure: Docker · Nginx · Linux VPS · Systemd · PM2 · Cloudflare Access · Let's Encrypt · CI/CD

Patterns / Security: Clean Architecture · CQRS · MediatR · Dapper · REST API · BCrypt · JWT · zero-trust · audit logging

AI / Integrations: Claude AI (Anthropic) · WhatsApp Cloud API · Google Calendar API

EDUCATION

Bachelor's in Business Informatics · Universidad de Costa Rica, Sede del Caribe | 2024 – present

Technical Degree in Accounting & Finance · C.T.P La Suiza | 2019 – 2022

LANGUAGES

Spanish: Native **English:** Advanced (technical reading, professional communication)