

# Carlos Cativo

Senior Backend Engineer · Tech Lead

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## SUMMARY

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Tech Lead with 9 years building production backend systems — payment processing, e-invoicing, subscription platforms, and conversational AI. Strongest in Laravel/PHP and TypeScript/NestJS, comfortable across the stack and the infrastructure underneath. Open to senior backend, tech lead, and staff roles, remote-first, with sponsorship for relocation.

## EXPERIENCE

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### Tech Lead / Full-Stack Engineer — Blue Medical

Apr 2022 — Present · Guatemala (Remote)

Lead developer across payment, e-invoicing, subscription, and AI voice platforms — owned design, delivery, and on-call from greenfield to production.

Built a Laravel payment microservice with a Strategy-pattern gateway abstraction over multiple processors (ISO 8583 over SOAP, SOAP/XML, REST). VGS card vault for PCI-friendly tokenization; network tokenization on top of the vault. Per-commerce / per-card-token routing, Horizon queues per gateway, Livewire ops dashboard. Led an OWASP-grade audit and ongoing security hardening.

Shipped Guatemala FEL e-invoicing service through an authorized provider with multi-establishment support, async processing on Horizon/Redis, SAP integration for results and credit notes, and a Livewire ops dashboard with response-time analytics.

Built BlueMeds, a medication subscription platform: lifecycle, delivery scheduling, insurance authorization, referral codes, Meilisearch catalog search, and 10+ third-party integrations across ERP, CRM, messaging, AI calling, and healthcare middleware.

Primary author of sofIA, a multi-agent voice system on ElevenLabs ConvAI + n8n for healthcare scheduling, currently in production. State-machine workflow with deterministic validation, retry, and recovery layers around tool calls. FastAPI control plane + Nuxt dashboard + Typer CLI.

*Laravel, PHP, NestJS, FastAPI, Python, Livewire, Nuxt, Angular/Ionic, PostgreSQL, MySQL, Redis/Horizon, Meilisearch, AWS, Docker, Bitbucket Pipelines, Sentry, ElevenLabs ConvAI.*

### Backend Developer — OrangeSoftCo (Publimovil Regional)

Sep 2020 — Apr 2022 · El Salvador

Re-architected the Y.O.D.A. monolith into microservices with Redis Streams for inter-service communication, improving end-to-end performance ~30%.

Tightened GitLab CI/CD pipelines and Docker/K8s deploys on DigitalOcean, cutting build time ~20%.

*Laravel, FastAPI, Python, MySQL, Redis Streams, Docker, Kubernetes, GitLab CI/CD.*

### Senior Developer — Mussol

Apr 2017 — Sep 2020 · El Salvador

Built an internal dashboard administering 100+ travel websites; set up AWS-based CI/CD that improved deploy time and reliability. Also shipped C#/Unity mobile games (TripXpertz).

*Laravel, MySQL, AWS, C#/Unity.*

## SELECTED PROJECTS

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**VittBot** — Multi-agent autonomous BTC/USDT trading bot on Binance: indicator pipeline feeds three Claude agents (Analyst, Trader, Validator) backed by a deterministic risk manager (10 hard-coded rules, never delegated to AI). *NestJS, TypeScript, Anthropic SDK, CCXT, Prisma + PostgreSQL.*

**nova-id** — Production-ready Zero Trust IAM stack using the Ory suite (Kratos, Hydra, Keto, Oathkeeper) with a NestJS admin API and Vue console. *Ory Stack, NestJS, Vue, Docker.*

**Clarify** — AI legal-contract auditor (Micro-SaaS, v1.0.0-alpha). PDF analysis, pay-per-analysis credits via Stripe webhooks, async processing on BullMQ. *Nuxt, Supabase (Postgres + RLS), OpenAI, Stripe, BullMQ + Redis.*

**cativo.dev infrastructure** — Self-hosted production stack: 16 containers across 6 stacks (apps, blog, mail, monitoring, proxy, databases) on my own infrastructure. *Docker Compose, Linux, UFW, TLS, DNS.*

## SKILLS

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<b>Languages</b>	TypeScript, JavaScript, PHP, Python, Bash, SQL
<b>Backend</b>	NestJS, Laravel 10/11, FastAPI
<b>Frontend</b>	Nuxt/Vue, Angular, Ionic, Tailwind
<b>Data</b>	PostgreSQL (Prisma, SQLAlchemy, Eloquent), MySQL, Redis, Meilisearch, Supabase
<b>AI / Integrations</b>	Anthropic Claude API, OpenAI, ElevenLabs ConvAI, multi-agent design, n8n, Stripe, Odoo, SAP, WhatsApp/Botmaker, Bland AI
<b>Payments / Tax</b>	ISO 8583 over SOAP, multi-gateway integration, VGS card vault, network tokenization, FEL e-invoicing (Guatemala), SAP
<b>Infra / DevOps</b>	Docker, Traefik, Nginx, AWS (S3/ECR/EC2), Cloudflare, GitHub Actions, Bitbucket Pipelines, Prometheus, Sentry
<b>Testing</b>	Pest/PHPUnit, Vitest, Jest, BATS, TDD

## EDUCATION

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**Universidad de El Salvador** — Engineer's degree, Computer Engineering (2014 — 2021).