

CARLOS DANIEL CEBALLOS AMOR

Full Stack Developer | Backend · Frontend · Mobile · AI Agents

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PROFESSIONAL SUMMARY

Full Stack Developer with 3+ years building and running production systems end to end: APIs (NestJS, Django REST Framework), databases (PostgreSQL, MongoDB), web frontends (React, Next.js, Astro) and Flutter apps. At a 13-hotel chain I scaled a B2B booking platform used by 1,000+ travel agencies, centralized petty cash across all hotels and deployed three AI agents in production, including a booking agent that handled 4,000+ reservations under strict access control. Strong focus on security, data integrity and automated testing.

PROFESSIONAL EXPERIENCE

Full Stack Developer (Freelance) — CATOCA

Jul 2026 – Present

Colombian coffee export company · catoca.cafe

- Built the brand website and online store, live at catoca.cafe (React 19, Vite, TypeScript, Tailwind CSS), with **Wompi** payments confirmed on the server instead of trusting the client.
- Building the internal sales, inventory and commissions system (NestJS + Fastify, Drizzle ORM, PostgreSQL, React + TanStack): lot-based FIFO inventory, commission payouts, DIAN-compliant pre-invoices, audited sales and Excel exports for Siigo Nube; web sales update inventory automatically through an orders API and a Wompi webhook.
- 100% test coverage (unit, component and API tests against real PostgreSQL) plus Playwright E2E; deployed with Docker Compose and Nginx.

Full Stack Web Developer — GEH Suites

Feb 2025 – Jun 2026

Hotel chain with 13 properties in Cartagena, Santa Marta and Bogotá, Colombia

- **Booking Connect:** scaled and maintained the API of the company's B2B hotel booking platform (NestJS + MongoDB), used by 1,000+ travel agencies and 1,400+ active users, and built its complete flight-booking API.
- **Booking Connect mobile:** rebuilt the entire Booking Connect frontend as a Flutter app (iOS/Android) focused on booking and managing reservations quickly from the phone, reusing the existing API.
- **Petty cash system:** built the API (Django REST Framework + PostgreSQL) and frontend that centralized petty cash across all 13 hotels, giving tighter control, faster cash closings for administrators, automated reports and statistics, and a full history of cash flow and cash purchases per hotel.
- **AI agents:** designed and deployed three production agents. **Lucía** (OpenAI API + MCP) created, managed and cancelled bookings and analyzed booking data in real time for agencies and internal staff, handling **4,000+ reservations** under a strict permission model that kept sensitive data from unauthorized users. **Federico** (OpenCLAW) analyzed purchase patterns across all purchase orders and generated accounting and petty-cash reports for the accounting department. An **orchestrator agent** (OpenCLAW), restricted to the CEO and me, assigned tasks to the other agents and verified the quality of their work.
- **Hotel IPTV app:** replaced a different traditional TV provider at each hotel with a single IPTV solution, building a Flutter Android TV app on the provider's API with live channels, hotel information, room service requests, restaurant menu and the chain's other hotels, plus a virtual intercom: guests scanned a QR code with their phone to call reception through a web tool.
- **Automation:** built an RPA bot for invoicing (email extraction, Bitrix24 CRM registration, attachment upload) that cut operating time by 40%, and daily Python + PostgreSQL ETL pipelines for hotel occupancy reporting.

Full Stack Web Developer — Caritech

Jan 2023 – Jan 2025

Software development for the company's clients

- Built full stack web applications for clients end to end, from requirements and data model to deployment and maintenance.
- Developed RESTful APIs with Python (Django REST Framework) and Node.js, and designed and optimized PostgreSQL, MySQL and MongoDB databases per client.
- Built responsive React interfaces and admin panels, Python automation for data and PDF/Excel reports, and Flutter apps for clients that needed a mobile channel.

Flutter Development Lead — Caminante Project

Jan 2023 – Dec 2023

Independent · Tourism mobile app for Cartagena de Indias

- Led the Flutter development end to end, with a tourist-centered UX (favorites, activity calendar, shareable routes).

- Recognized as a **high-impact project** by SENA's **Fondo Emprender**, and took part in a **public tender held by the city of Cartagena**.

PROJECTS

Pargo — Multi-tenant POS SaaS for restaurants and hotels

Jul 2026 – Present

Personal project · built with AI-assisted development · MVP ready for client demos

- TypeScript monorepo: NestJS modular monolith, PostgreSQL with **Row-Level Security** tenant isolation, React backoffice, Next.js public menu site and a background worker with a transactional outbox.
- Offline-capable POS (PWA with signed sync), real-time kitchen display over WebSockets, cash closing with blind count and Z report, DIAN electronic invoicing and recipe-based inventory ledger.
- AI speeds up implementation; the architecture and every technical decision are mine and justified in 11 ADRs. 751 automated tests (Vitest + Testcontainers on real PostgreSQL) plus Playwright E2E.

TECHNICAL SKILLS

- **Backend:** Python, Django, Django REST Framework, Node.js, NestJS, Fastify, Express, TypeScript, RESTful APIs, WebSockets, Zod.
- **Frontend:** React, Next.js, Vue.js, Astro, Vite, TanStack Router/Query, Tailwind CSS, JavaScript, HTML, CSS.
- **Mobile:** Flutter, Dart (iOS/Android), Android TV, PWA.
- **Data:** PostgreSQL (Row-Level Security, multi-tenancy), MySQL, MongoDB, Redis/Valkey, Drizzle ORM, query optimization, indexing, ETL.
- **AI & automation:** AI agents, MCP protocol, OpenAI API, OpenCLAW, multi-provider LLMs (OpenAI, Anthropic, Gemini), AI-assisted development, RPA, Machine Learning (fundamentals).
- **Integrations:** Wompi payments, DIAN electronic invoicing, Siigo Nube, Bitrix24 CRM, IPTV APIs, webhooks, PDF/Excel reports.
- **DevOps & testing:** Git, GitHub, Docker, Docker Compose, Nginx, Vercel, AWS, Turborepo + pnpm, OpenTelemetry, Vitest, Testcontainers, Playwright, Agile.

EDUCATION & LANGUAGES

- Systems Engineering (in progress) — Universidad de Cartagena.
- Business Strategy Management in the Digital Era — Universidad Tecnológica de Bolívar, 2021 · Full Stack Development — edX, 2023 · Introduction to Machine Learning — Udemy, 2024.
- Spanish: native · English: B2 (upper-intermediate).