Carlos Andrés Beltrán Franco

Senior Full-Stack Developer · Systems Engineer

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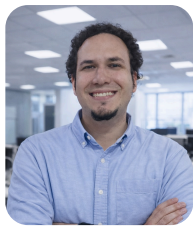

15+ years of experience | **7** teams | **37** technologies and tools

Professional summary

Systems Engineer and senior full-stack developer with 15+ years building web software end to end: I design the API, build the interface and ship it to production with CI/CD. I work with PHP (Laravel, Lumen), TypeScript (NestJS, Next.js, Angular, React), PostgreSQL and MySQL, and integrate services such as Twilio, SendGrid and Firebase. Since 2024 I have been developing with AI: specialised agents, MCP servers and TDD.

Technical skills · years of experience next to each

Languages & Frameworks: PHP 15+, Laravel 7+, Lumen 7+, CodeIgniter 5+, NestJS 5+, Next.js 2+, Angular 5+, React 3+, JavaScript 15+, TypeScript 5+, C#/.NET 2+

AI & Automation: AI + MCP development 2+, Specialised agents 2+, IA First 2+, TDD 2+, RAG <1, Automation 2+

Databases: MySQL 15+, PostgreSQL 5+, SQL Server 2+

DevOps & Tools: Git 10+, Bitbucket 7+, Docker 5+, CI/CD 5+, Firebase 5+, Jira 7+, Confluence 7+, GitFlow 4+

QA & Testing: Cypress 3+, TestRail 3+, Pest 3+, PHPUnit 5+, Jest 3+, Playwright 3+

Methodologies: Scrum 7+, MVC 15+, Microservices 5+

Professional experience

Sep 2018 – Present

Senior Developer · INMOV - AX MARKETING

- Backend and frontend for the INMOV platform, from requirement to production, in a Scrum team with Jira and Confluence.
- I design and build REST APIs and microservices with Laravel, Lumen and NestJS.
- I integrate messaging, email and notifications with Twilio, SendGrid, OneSignal and Firebase.
- I automated deployments to AWS servers with Bitbucket Pipelines and Docker: every change is tested, packaged and released the same way.
- I build hybrid apps with Cordova and Angular, and frontends with React, Vue.js and Next.js. Since 2024 I have been developing with AI: specialised agents by role (plan, tests, code and review), MCP servers connected to the team's tools, and TDD.
- I automate repetitive tasks, reports and integrations, and I have worked with RAG over in-house documentation.

Stack: PHP · Laravel · Lumen · NestJs · Next.js · React · Cordova · Angular · Twilio · SendGrid · Firebase · CI/CD · Scrum · Vue.js · AWS · OneSignal

Feb 2026 – Nov 2026

Full-Stack Developer · BLOSSOM

- Integrated financial system for Credit Unions in the US. I built and maintained backend modules in PHP and frontend in JavaScript on PostgreSQL.
- I worked to the security and quality standards of a financial system: GitFlow, code review and end-to-end tests with Playwright.
- I used AI-assisted development throughout the project: specialised agents, MCP servers, TDD and automation.
- I worked with Docker, GitHub and REST APIs.

Stack: PHP · JavaScript · PostgreSQL · REST API · Git · Docker · Github · GitFlow

2016 – 2018

Technology Instructor · SENA INSTITUTE

- Training apprentices in software development.
- I taught C#/ASP.NET, PHP with Laravel, React, MySQL, jQuery and HTML5.
- I designed hands-on guides, challenges and applied projects.
- I mentored apprentices through their projects until delivery.

Stack: C# · ASP.NET · PHP · Laravel · Blade · React · MySQL · JQuery · HTML5

Sep 2016 – Mar 2017

Software Developer · IMAGINAMOS SAS

- Custom applications for clients, on fixed-scope contracts.
- I built applications with PHP and CodeIgniter (MVC).
- I integrated MySQL and Oracle databases.
- I delivered each feature to the agreed scope.

Stack: PHP · CodeIgniter · MySQL · Oracle

May 2015 – Mar 2016

Analyst & Developer · Mercadeo y Tecnología

- Custom PHP software.
- I gathered requirements and turned them into features.
- I developed with CodeIgniter (MVC) and PyroCMS.
- I supported and evolved the solutions in production.

Stack: PHP · CodeIgniter · PyroCMS

Mar 2013 – Feb 2015

Project Lead & Developer · AC Webmasters

- Web projects from start to finish: planning, development and delivery.
- I planned the projects and tracked them with each client.
- I developed the applications with PHP and CodeIgniter (MVC).

Stack: PHP · CodeIgniter · Gestión de Proyectos

Jul 2012 – Feb 2013

Analyst & Developer · Soluciones Web Colombia S.A.S.

- Custom applications for corporate clients.
- I took part in analysis, development and delivery with PHP and CodeIgniter (MVC).

Stack: PHP · CodeIgniter

Projects

AmigoPost – SaaS in development for content creators: upload a piece once, then adapt and schedule it for Instagram, Facebook, TikTok, YouTube and X. Monorepo with Next.js 16, Fastify 5 and PostgreSQL 18, with FFmpeg video processing in sandboxed containers. (Next.js, Fastify, PostgreSQL, FFmpeg, Docker)

INMOV Platform – Enterprise platform with REST APIs, microservices and hybrid applications. Integrations with Twilio, SendGrid, and Firebase. (Laravel, NestJS, Angular)

CI/CD Pipeline – Bitbucket pipeline that tests every change, packages it in Docker and deploys it the same way. (Bitbucket, Docker)

Education Platform – Teaching materials and applied projects for technical training at SENA. (C#, PHP, MySQL)

Hybrid Apps – Hybrid mobile application development with Cordova and Angular. (Cordova, Angular)

Corporate Solutions – Custom web applications with CodeIgniter for corporate clients. (PHP, CodeIgniter)

Education

2020 – 2024

Systems Engineering · CUN

Bachelor's degree · Colombia

2006 – 2008

Analysis and Development of Information Systems · SENA Regional Tolima

Technologist · Ibagué

Personal details

National ID	1.110.487.813
Date of birth	15/07/1989
Location	Ibagué, Tolima, Colombia
Languages	Spanish (Native) - English (B2)