

DIEGO ANDRÉS CABRERA ROJAS

Tech Lead · Software Architect · AI Applied to Software Development

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PROFESSIONAL SUMMARY

Tech Lead with 7+ years building software that ships to production and keeps running in daily use, for clients such as Positiva, MinTIC, municipal governments, and a range of private companies. I lead development teams without stepping away from the code: I define the architecture, set the standards, and review what we ship, always keeping the bridge between the technical and business sides. I've directed a monolith-to-microservices migration in .NET Core and built procedure platforms now used by thousands of citizens. As of today I'm bringing AI tools into the team's development flow: I led the build of an AI assistant using RAG that replaced manual search across hundreds of pages of documentation and added automated code review on every pull request, and I'm bringing MCP, Agent Skills, and Spec-Driven Development into the workflow to speed up delivery without sacrificing quality.

PROFESSIONAL EXPERIENCE

Tech Lead — Development & AI Strategy

Aug 2024 – Present

SASOFTCO · Bogotá, Colombia

- Lead the Positiva ISARL project, the organization's core system: I drive the response to reported technical incidents and plan the migration strategy to decouple the monolith into microservices using Java (Spring) and .NET Core.
- Led the design and build of an assistant that answers questions about organizational documentation in natural language (Python, LangChain, Weaviate), letting business users find answers in seconds instead of searching manually across hundreds of technical pages.
- Implement optimizations in the development process by applying AI tools and methodologies such as Spec-Driven Development, backed by project knowledge bases, to speed up delivery times and unify the team's standards.
- Implemented automated code review on every pull request, consistently validating company standards and freeing up review time for senior developers.
- Directed the migration of the Jackcore monolith to a reusable microservices architecture in .NET Core (authentication, BPMN, notifications, document conversion, storage), reducing the cost and time of new development by allowing reuse across multiple systems.
- Provide cross-functional technical support to portfolio projects (MinTIC, Alcaldía de Chiquinquirá, other agencies), reducing maintenance time and production incidents.

Full Stack Developer

Mar 2023 – Aug 2024

SASOFTCO · Villavicencio, Colombia

- Designed and built GovcodePro's dynamic form generator (Angular + Camunda Forms Modeler), cutting complex form creation from days to minutes; now a core component across multiple government portals and procedures.
- Delivered Cormacarena's procedures portal (Angular and .NET Core) aligned with Colombian government guidelines, digitizing environmental procedures and reducing citizen response times.
- Built an enterprise procedures portal in Angular and .NET Core automating procedure management, authentication, and reporting, increasing client agencies' operational efficiency.
- Implemented a centralized Citizen Services Platform aligned with government accessibility standards, improving the user experience of online procedures.

Full Stack Developer — Freelance

Jan 2022 – Present

Freelance projects · Colombia (Remote)

- Built Luminara's landing page with Claude Code, Cursor, and AI-assisted workflows, accelerating delivery without sacrificing quality or maintainability.
- Implemented AlbertCTS's landing page with Cursor, GitHub Copilot, and AI practices, cutting delivery time by 70%.

- Redesigned the React frontend architecture of Trip Planner IA, an AI travel-planning startup later acquired by layla.com, improving scalability and production performance.
- Developed a React Native mobile MVP for a B2B materials marketplace, with per-client transaction traceability.

Backend Developer

May 2021 – Nov 2021

HEWTEC · Bogotá, Colombia

- Optimized the Wizard tool for automated full-stack template generation (React, Node.js, Express, PostgreSQL) under a REST architecture, accelerating the bootstrap of new internal projects.
- Trained multiple internal teams on installation, components, and effective reuse of the tool.

Frontend Developer

Jun 2018 – Sep 2019

S&C Business Solutions · Villavicencio, Colombia

- Implemented the CMS for Unicentro Villavicencio shopping mall (JavaScript, Firebase, Firestore Realtime), reducing the time to update store information.
- Built responsive web applications with React.js, Firebase, and Vanilla JS for multiple local businesses, optimizing their digital presence.

TECHNICAL SKILLS

AI & Agents RAG · LangChain · Weaviate · MCP · Agent Skills · Spec-Driven Development · LLMs · Open Source Models · Prompt Engineering · Human-in-the-loop

AI-Powered Editors Cursor · Claude Code · GitHub Copilot · OpenCode · Codex

Frontend Angular 14+ · React · React Native · TypeScript · JavaScript (ES6+) · Next.js · Gatsby.js · Web Components · HTML5 · CSS3

Backend .NET Core · Node.js · Express.js · Serverless Functions · REST APIs · GraphQL

Architecture Microservices · Clean Architecture · Design Patterns · Clean Code · SOLID · BPMN · Reusable capability design · AuthN/AuthZ

Databases SQL (SQL Server, PostgreSQL) · NoSQL (MongoDB, Neo4j, Firebase / Firestore)

DevOps & Other Docker · CI/CD · Git / GitHub · JasperReports · Leaflet

EDUCATION

Machine Learning & Deep Learning · DeepLearning.AI 2026 – In progress

Software Engineering Specialization · Universidad de los Llanos (coursework completed, not graduated) 2023 – 2024

Systems Engineering · Universidad de los Llanos 2018 – 2023

Full Stack Web Developer · University of Helsinki 2022 – 2023

Frontend Developer Nanodegree · Udacity 2017 – 2018

CERTIFICATIONS

AI & LLMs: Claude Architect Foundations · Agent Skills with Anthropic · RAG in Action · MCP AI Apps · Claude Code in Action · LangChain for LLM Application Development · Agentic AI · AI Prompting for Everyone · Spec-Driven Development · Open Source AI Models (Hugging Face)

Development: C# and .NET Core Fundamentals · Building an Open Source Library in JavaScript (Frontend Masters, 2025) · Design Patterns in JavaScript · Angular Frontend Developer · React Course · Architecture, Design Patterns and Clean Code Course

LANGUAGES

Spanish: Native **English:** B1 reading and writing · A2 speaking and listening (actively improving)