

Andrés Felipe Leones Palacio



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Backend Developer with over 4 years of experience in designing, developing, and maintaining scalable, high-performance web applications. Specialized in Node.js and NestJS under microservices and modular architectures, as well as in Laravel using MVC architecture and well-structured monolithic approaches. Experienced in leading backend teams and technology projects under agile methodologies, integrating software architecture, business logic design, and technical management to ensure robust and maintainable solutions. Skilled with MySQL and PostgreSQL, optimizing data models and performance in production environments. Experienced in sectors such as SaaS, healthcare, electronic invoicing, and enterprise systems, delivering solutions focused on scalability, operational efficiency, and business value, aligning technology with organizational strategic goals.

Professional Experience

Universidad del Sinú

Cartagena, Colombia

Web Aplicaciones Developer | Full-Time

January 2021 – December 2021

- Developed **iVote**, a web-based electoral system using PHP and JavaScript (MVC).
- Implemented authentication, access control, and real-time results visualization.
- Reduced manual errors and improved internal processes through digitalization.
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Laboratorio rey Fals

Barranquilla, Colombia

DBA & KPI Analyst | Developer | Full-Time

January 2022 – December 2022

- Managed databases, ensuring the integrity and availability of critical laboratory information.
- Generated KPI reports for the quality department, supporting decision-making with key data analysis.
- Participated in developing a modern lab results delivery system via QR codes, improving access to COVID tests and operational efficiency.

Cargill

Arjona-Bolívar, Colombia

Technical Support Analyst – Field Services | Full-Time

January 2023 – September 2023

- Provided specialized technical support for corporate SaaS platforms and production environments.
- Diagnosed and resolved technical and functional issues, meeting SLA and KPI targets.
- Supported hardware infrastructure and workstations, ensuring availability and operational continuity.
- Prepared performance reports based on efficiency and user satisfaction indicators.

Nexus Information Technologies S.A.S.

Barranquilla, Colombia

Full Stack Developer | Backend Leader | Full-time

September 2023 – January 2025

- Led the backend development of multiple web applications, ensuring stability and scalability.
- Managed cloud servers, version control, and continuous deployment processes.
- Provided support for SaaS applications, including medical software and electronic invoicing.
- Maintained constant communication with clients to understand needs and deliver efficient technical solutions.

Freelance

Barranquilla, Colombia

Backend Developer | Technical Project Lead | Freelance

August 2025 – January 2026

- Led backend development and designed database architecture.
- Implemented REST APIs for client management, payments, and financial reporting.
- Coordinated the project under SCRUM, managing requirements directly with the client.
- Implemented monitoring and server optimization metrics using Grafana and Prometheus.

Education

Servicio nacional de aprendizaje | SENA

Barranquilla, Colombia

Systems Technician | July 2016

Servicio nacional de aprendizaje | SENA

Barranquilla, Colombia

Technologist in Information Systems Analysis and Development | July 2020

Universidad Nacional Abierta y a Distancia | UNAD

Barranquilla, Colombia

Systems Engineering | In Progress

Soft Skills

- Technical leadership and teamwork
- Effective and assertive communication
- Analytical thinking and problem-solving
- Adaptability to change and continuous learning
- Client-oriented and proactive
- Time management and results-focused

Backend & APIs

- Node.js
- NestJS
- PHP
- Laravel
- RESTful APIs
- Microservices Architecture
- Monolithic Architecture
- API Security (JWT, OAuth)
- Authentication & Authorization

Tools & Version Control

- Git
- GitHub
- GitLab
- Postman

Databases & Data

- PostgreSQL
- MySQL
- Database Design
- Data Modeling

DevOps & Cloud

- Linux Servers
- Cloud Deployment
- Docker
- CI/CD Pipelines
- Server Monitoring
- Grafana
- Prometheus

AI & Automation

- Use of Generative AI in production environments
Integration with AI APIs (OpenAI, Claude, etc.)
- n8n (AI Workflow Automation)
- API Orchestration & Automated Workflows
- LLM-Based Process Automation
- AI-Driven Backend Workflows
- Prompt Engineering for Production Systems

Professional Achievements

- Reduced manual errors **60%** and delivery times **70%** through automated web and QR-based systems.
- Led backend for **5+ scalable web applications** serving **hundreds of users**.
- Improved database performance up to **35%** and built APIs handling **thousands of monthly transactions**.
- Reduced SaaS incident resolution time by **30%** and improved observability with **Grafana & Prometheus**.

Highlighted Projects

MiGestor – Debt Management System

Role: Backend Developer & Technical Project Lead

Technologies & Tools: NestJS, PostgreSQL, Next.js, SCRUM

- Designed backend architecture and database model.
- Implemented REST APIs for client, payment, and financial reporting management.
- Coordinated the project under SCRUM methodology, managing requirements directly with the client.
- Implemented monitoring metrics to optimize server resource usage using Grafana and Prometheus.

iVote – Web Electoral System

Role: Backend Developer

Technologies: PHP, JavaScript, MVC

- Developed an electoral system for internal university elections.
- Implemented authentication, access control, and real-time results visualization.
- Reduced manual errors and improved electoral process transparency.

QR System – COVID Lab Results

Role: Backend / Data Analyst

Technologies: PHP, SQL, QR

- Developed a QR-based lab results delivery system.
- Reduced delivery times and in-person consultations.
- Supported decision-making through KPI reports for the quality department.