

CARLOS LOSADA

Full-Stack Developer · Backend & Automation

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SUMMARY

Full-stack developer with a backend focus, specializing in automation and AI-driven document processing. Experienced with n8n automation systems, REST APIs, and backend services in Node.js, NestJS, and Python. Background in Philosophy and Literature that drives a rigorous, communication-first approach to software. Based in Colombia, working in US time zones.

EXPERIENCE

Software Developer (Internship) — Interactivo Grupo Marktel

Feb 2026 – Present

Manizales, Colombia

- Build automation bots with n8n, integrating customer-service and sales platforms to reduce manual, repetitive work.
- Digitize manual processes — turning paper-based surveys and testing workflows into digital tools, including on iAttend, a Vue-based platform.
- Maintain and support the internal system the company runs its operations on, resolving day-to-day user issues.

Tech: n8n, Vue, JavaScript/TypeScript, REST APIs

Backend Developer (Freelance) — Self-employed

2024 – 2025

Remote (US & France clients)

- Built the backend for Pet Vital, a US veterinary platform, developing an OCR/NLP pipeline that transforms pet documents into structured dashboard data. In private production use.
- Developed the backend for a French public-tender analysis platform, integrating Google Cloud Vision to extract tender requirements and assess bid eligibility. Frontend was already in place.

Tech: Python, FastAPI, Google Cloud Vision, OCR/NLP, REST APIs

Research Assistant — Digital Humanities & AI in Education

Feb 2022 – Dec 2025

Universidad de Caldas · Manizales, Colombia

- Research at the intersection of education, the humanities, and technology.
- Applied AI and digital tools to analyze documents and data.

PROJECTS

- **University Residence Management System** — React, NestJS, MongoDB. Admin dashboard and resident control panel.
- **Calibration Curve Analyzer** — React, Python. Real-time plotting and regression analysis of chemical calibration curves.
- **Gesture-Controlled Robotic Arm** — Python, MediaPipe, OpenCV. Real-time hand-gesture control via camera input.

EDUCATION

- **AI Engineering** — Universidad de Caldas · 2026 – Present (in progress)
- **Software Analysis and Development (Technologist)** — SENA · 2024 – Present (in progress)
- **Philosophy and Literature** — Universidad de Caldas · 2019 – 2025

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL

Backend: Node.js, NestJS, FastAPI, REST APIs

Frontend: React, Next.js, Vue

Databases: PostgreSQL, MySQL, MongoDB

Automation & AI: n8n, OCR/NLP, Google Cloud Vision, LLM APIs

Tools: Git, Linux

LANGUAGES

Spanish (native) · English