

CARLOS EDUARDO JUAREZ RICARDO

AI AGENT ENGINEER | FULL STACK ARCHITECT

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PROFILE

Innovative Software Engineer with a strong Full Stack foundation, evolving into **Agentic AI** architectures. I specialize in building the backend infrastructure (.NET 8/Python) that powers autonomous agents, transforming manual business logic into self-healing workflows using tools like **n8n** and **LangGraph**. Capable of managing the entire lifecycle: from configuring Linux servers and optimizing Docker containers to designing clean APIs and frontend dashboards. Architect of "Parhelion Logistics", a system where AI agents manage crisis operations autonomously.

TECHNICAL EXPERTISE

- **Agentic AI & Orchestration:** Expert in designing autonomous workflows using **n8n**, **LangGraph**, and **Webhooks**. Proven ability to integrate LLMs (Gemini/Claude) into business logic for self-healing systems.
- **Backend Engineering:** Strong architectural skills in **.NET 8 (C#)**, **Python**, and **PHP**. Experience building Clean Architecture APIs, integrating legacy systems, and implementing secure authentication (API Keys/JWT).
- **Database Management:** Advanced schema design and optimization for **PostgreSQL**, **MySQL**, and **SQL Server**. Expertise in writing complex SQL queries, EF Core migrations, and ensuring data integrity for high-volume transactions.
- **DevOps & Cloud Infrastructure:** Hands-on experience managing Linux (Ubuntu) servers and **Docker** orchestration. Proficient in **Cloudflare** ecosystem (DNS/Tunnels) and **Resend API** for transactional email pipelines.
- **Frontend & UX:** Proficient in building modern interfaces using **Angular**, **React Native** (Mobile), and **Tailwind CSS**, creating intuitive dashboards for complex operations.

EDUCATION

**Higher University Technician
in Computer Technology**
Veracruzana University
2023 – 2027

SKILLS

- **Languages:** Python, C# (.NET 8), JavaScript, Java.
- **Databases:** PostgreSQL, MySQL, SQL Server.
- **Frameworks:** React, Angular, FastAPI, Node.js.
- **DevOps & Cloud:** Docker, Cloudflare (DNS), CI/CD Pipelines, Linux.
- **Agentic Stack:** n8n, LangGraph, Webhooks, LLM Integration, RAG, Self-Healing Systems. •

LANGUAGES:

- **Spanish:** Native
- **English:** Intermediate (Technical Focus)

PROFESSIONAL EXPERIENCE

Lead Software Architect | Parhelion Logistics (Project) *October 2025 – Present / Remote*

- **Engineered** a "Human-in-the-Loop" crisis management system using **n8n** and Webhooks, utilizing Haversine logic for geospatial recovery.
- **Built a secure .NET 8 API** core with custom attributes ([ServiceApiKey]) for privileged AI-to-Database communication.
- **Deployed a React Native** driver app and **Angular** admin dashboard with Tailwind CSS, ensuring real-time data sync.
- **Managed** Linux infrastructure, implementing **Docker** orchestration and Swap strategies for 99.9% uptime.

Full Stack Developer | Microfinanciera Inpulso *January 2025 – November 2025 / Poza Rica, MX*

- Designed and deployed the core administrative web platform using **Node.js** and **PHP**.
- Optimized database queries, reducing report generation time by 40%.
- Maintained 99.9% uptime for critical financial services.

IT Specialist & Automation Consultant *2019 – 2024 / Independent/Various Clients*

- Provided infrastructure solutions and hardware maintenance for banking clients (HSBC/BBVA).
- Automated data entry tasks using Python scripts, saving 10+ hours of manual work weekly.

METHODOLOGIES

- **Architecture:** Domain-Driven Design (DDD), Clean Architecture, Microservices patterns.
- **Workflow:** Agile/Scrum, Git Flow, CI/CD Pipelines.
- **Soft Skills:** Asynchronous Communication, Remote Collaboration, Crisis Management, Technical Writing.

ACHIEVEMENTS

Winner | Ubisoft's Captain Laserhawk: The G.A.M.E – CTF Event (2024)

- Secured a top-tier placement in a competitive, invite-only Capture The Flag (CTF) cybersecurity challenge.
- Successfully navigated complex server-side puzzles and simulated hacking scenarios to retrieve digital assets (flags) in a live environment.
- Awarded a significant cryptocurrency prize (1 ETH) for rapid problem-solving and technical execution.