

Cristian Camilo Jaramillo Rojas

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Education

Institución Universitaria Pascual Bravo Software Engineering (8th semester)	Medellín, Colombia 2022-Present
EAFIT Program: Data Scientist - Basic Level	Medellin, Colombia 2022
I.E. Monseñor Gerardo Valencia Cano High School Diploma	Medellin, Colombia 2021
Linkedin LinkedIn Courses	Linkedin

Experience

Personal AI & Automation Projects <i>AI & Automation Ecosystems Architect</i>	Medellín, Antioquia August 2025 – Present
<ul style="list-style-type: none">Orchestrated an ecosystem of 19 AI agents, developing complex thought processes and operational contexts (context engineering) to automate end-to-end content marketing campaigns.Designed a modular processing chain of 5 AI agents that transforms unstructured career data into optimized HTML resumes, ensuring autonomous execution.Applied advanced prompt engineering techniques and 'system instructions' to specialize 5 AI agents with unique cognitive architectures, covering structuring, parsing, data fusion, persuasive rewriting, and HTML rendering phases.Developed a PowerShell script that automates video assembly with FFmpeg, implementing a two-phase architecture and dynamic trimming logic that eliminated 100% of cascading failures.Forged a monolithic generative agent, using the Gemini model, that synthesizes 4 video scripts and 4 vocal archetypes in a single execution, applying neuromarketing frameworks to maximize engagement.Established a canonical JSON schema for data exchange between agents, ensuring frictionless integration and maintaining absolute data integrity throughout the multi-agent workflow.	
JHOKER SPORT S.A.S. <i>Automation & Data Systems Developer (Freelance)</i>	Medellín, Antioquia August 2025 – August 2025
<ul style="list-style-type: none">Engineered a scalable production control system in Google Sheets, centralizing manual processes through key functions in Google Apps Script that automated data aggregation and workflow management.Automated the creation of production order modules, drastically reducing setup time by dynamically generating linked Google Forms and Sheets, ensuring data consistency across the system.Designed 3 automated BI dashboards using advanced QUERY and ARRAYFORMULA functions, providing real-time tracking of operator efficiency and module performance.	
Personal Project	Medellín, Antioquia

Architect & Lead Developer, Generative AI Pipeline

June 2025 – July 2025

- Deployed a 24/7 self-hosted automation platform on Google Cloud Platform, orchestrating a dual-container environment with Docker that reduced operational costs by 90%, from ~\$50 to ~\$5 per month.
- Architected an end-to-end video generation pipeline, implementing parallel processing for concurrent asset creation and using the Google Transcoder API for final automated assembly.
- Designed 4 specialized AI agent protocols to automate scriptwriting, visual ideation, and the generation of timed kinetic typography with high precision.
- Eliminated rendering failures in FFmpeg by designing a normalization protocol that enforced a strict timestamp format (H:MM:SS.ss), eradicating `libass` errors and elevating pipeline reliability to optimal production levels.

JHOKER SPORT S.A.S.

Medellín, Antioquia

Project Lead & Full-Stack Developer

April 2025 – May 2025

- Led the complete lifecycle of an inventory management project, from requirements analysis to production deployment, delivering a robust solution aligned with strategic business objectives.
- Architected a full-stack solution with a centralized database and robust security (JWT and RLS), establishing an EAN-13 code identification system that served as the single source of truth for inventory.
- Implemented a dual inventory registration system (manual and scanning) that minimized dispatch errors and significantly optimized product search times.

Fashion Flow (Inventory Manager for clothing stores)

Medellín, Antioquia

Architect & Full-Stack Developer

August 2024 – December 2024

- Orchestrated the development of a web-based inventory management application using a modern stack, delivering a scalable solution that optimizes retail sector operations.
- Designed and implemented a database architecture in Supabase with a user role system, ensuring the security and integrity of sales and customer data.
- Developed reporting and billing modules that provide real-time sales analysis, empowering management to make data-driven strategic decisions.

University Projects (C# - Windows Forms)

Medellín, Antioquia

Desktop Application Developer

2022 – 2024

- Conceptualized and built multiple desktop applications in C# and Windows Forms, demonstrating proficiency in UI design and integration with SQL databases to solve business problems.

Data Analysis Projects (Python)

Medellín, Antioquia

Data and Machine Learning Analyst

2022 – 2024

- Executed data analysis on complex datasets to extract actionable insights, applying specialized Python libraries for data manipulation and visualization.
- Applied Machine Learning models to develop predictive solutions, validating the ability to solve real-world problems through artificial intelligence.

Skills & Interests

Programming Languages: Python, C#, TypeScript, SQL

Web Development: Vite, HeroUI, Tailwind CSS, HTML/CSS, GSAP, Supabase (BaaS)

AI Engineering: AI Development, Prompt Engineering, Context Engineering, System Instructions, Thought Process Design

AI Models (Google): Gemini, Imagen 4, Imagen 3, Veo 2, Veo 3, Nanobanana

Data Analysis & ML: Machine Learning (Scikit-learn), Data Analysis (Pandas, NumPy)

Tools & Platforms: Git, Docker, Google Cloud Platform, PowerShell, FFmpeg, n8n

Languages: Spanish (Native), English (B1 - Basic Professional Competence)

Interests: Generative Artificial Intelligence (Agent models and architectures), E-commerce Strategies, Japanese culture and aesthetics, Mountain hiking in Antioquia, Guitar performance (Rock and Blues)