

Juan Sebastian Aparicio Wallis

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Bilingual AI Engineer in training with a strong foundation in full-stack development (Node.js, Next.js) and an accelerating focus on AI systems. Hands-on experience building LLM-powered applications, designing multi-agent workflows, and integrating tools via MCP (Model Context Protocol). Actively expanding expertise in Python, PyTorch, and agent orchestration frameworks. Comfortable working at both the infrastructure layer and the model interface — from REST APIs to agentic pipelines.

PROFESSIONAL EXPERIENCE

Bet365

Account agent

Bogotá, Colombia

March 2023 – September 2023

- Processed and analyzed large volumes of structured user-account data — developing the data intuition foundational to working with training sets and inference pipelines.
- Diagnosed complex technical account issues proactively, maintaining system performance across high-load scenarios.
- Coordinated across cross-functional teams with clear written and verbal communication (English & Spanish)

Mercado Libre

Customer Experience

Bogotá, Colombia

May 2020 – February 2021

- Sustained personal KPIs between 85–100% while collaborating in a team of 20 on high-volume customer workflows.
- Proposed and implemented process improvements in team strategy sessions, sharpening the systems-thinking mindset now applied to AI pipeline design.

EDUCATION

FRANCISCO JOSÉ DE CALDAS DISTRICT UNIVERSITY

Systems Engineer

GPA: 4.1

Bogotá, Colombia

2023 - Present

TECH SKILLS

- **AI & LLM:** Claude API, OpenAI API, LLM prompt engineering, multi-agent systems, MCP (Model Context Protocol), RAG pipelines, agent orchestration
- **ML / Frameworks:** Python (learning), PyTorch (learning), embeddings, vector stores
- **Backend:** Node.js, REST API design & debugging, Kafka (event-driven), Docker, Supabase, Redis
- **Frontend:** Next.js, React
- **Databases:** MongoDB, PostgreSQL (Supabase)
- **Dev tools:** Git, Jira, SCRUM, Claude Code, Vercel, Render
- **Languages:** Spanish (native), English (B2)

PROJECTS

BicIbague

bicibague-page.onrender.com

Bogotá, Colombia

August 2025 - December 2025

- An interactive web platform for renting bicycles over Ibague, Colombia in real time using Event-Drive architecture and Kafka Simulation. Designed for 'Software Design' subject.
- Real simulation with 'Client' to achieve the desired product. Collaborative work using Jira and a SCRUM methodology.
- Build with Node.js, Supabase, Kafka and Docker.

WikiUD

www.wikiud.org

Bogotá, Colombia

November 2023 - January 2024

- An interactive web platform for searching, rating, and commenting on university professors. It allows students to find relevant information about instructors, view their ratings, read and leave comments, and explore details about each professor in a visual and modern way.
- Over 200 simultaneous users and more than 500 students registered.