MIGUEL ZULUAGA

Full Stack AI Developer

Medellín, Antioquia, Colombia

linkedin.com/in/miguelzuluaga | github.com/miguelczz | mzuluaga.vercel.app | +57 311 293 9462

PROFESSIONAL SUMMARY

Full Stack AI Developer in Medellín. I build AI agent systems end to end: LLM orchestration, backend, interface and infrastructure, with clean architecture, tests and continuous deployment to production. Self-taught, focused on code quality and operational security. Available immediately.

EXPERIENCE

Software Developer — 3C Community S.A.S.

April – October 2026 | Remote

- Development and operation of a multi-tenant B2B SaaS platform for Colombian SMEs, covering recruitment, employee management, and performance reviews.
- Automated candidate and employee conversations over WhatsApp, with AI agents and semantic CV ranking.
- Identity and access control with Keycloak (OIDC) and per-tenant data isolation with PostgreSQL Row Level Security.
- Continuous deployment to production with Docker and GitHub Actions.

Software Developer Intern — Tigo Colombia

October 2025 – April 2026 | Medellín, Colombia (On-site)

- Designed intelligent agents using LLMs to automate complex technical processes.
- Implemented following Clean Architecture, keeping the domain separate from infrastructure.
- Multi-model orchestration with automatic fallback to ensure service reliability.

Technology Development Assistant — Audit Integral Advisors S.A.S.

February 2024 – August 2025 | Remote

- Developed technology solutions and automated internal processes.
- Data extraction and visualization in Python for auditing and organizational management information systems.

PROJECTS

ISSI HR (2026)

Multi-tenant SaaS platform for recruitment and employee management with automated WhatsApp conversations: job postings, AI-powered CV screening, performance management, and internal communication. Stack: Next.js, TypeScript, FastAPI, Python, PostgreSQL (RLS), Redis, Celery, Qdrant, Keycloak, Backblaze B2, Cloudflare Tunnel, Docker, Hetzner, GitHub Actions, WhatsApp APIs (Meta/Twilio), RAG, LiteLLM, Multi-agent system, Langfuse.

issiagent.com

Cautelia (2026)

AI agent that takes crash reports and answers auto policy questions via chat or in-browser voice call, in English and Spanish. It cites the exact policy clause, leaves coverage decisions to an adjuster subagent, and lets you monitor telemetry. Automated evaluation: 258 cases logged in the latest full run (Oct 15, 2026), none failed. Stack: React, TypeScript, FastAPI, Python, LangGraph, Claude, PostgreSQL (RLS, pgvector), Deepgram, Cartesia, Langfuse, Input and output guardrails, Custom MCP Server, Docker, Google Cloud Run

cautelia.app | github.com/miguelczz/cautelia

Wi-Fi Expert Agent (2026)

Multi-agent, multimodal web analyzer for Wi-Fi networks that turns Wireshark packet captures into precise diagnostics using AI, with a Skills, Tools, and Judge System architecture. Stack: React, TailwindCSS, FastAPI, Python, TShark, Qdrant, Redis, LiteLLM (Groq/Gemini/OpenAI), MCP, Langfuse, FalkorDB, Docker.

github.com/miguelczz/wifi_expert_agent

Talky (2025)

Educational virtual assistant for practicing English | Awarded Best Capstone Project — Fourth Semester Category

github.com/miguelczz/Talky

Kakureya (2025)

Web app for managing orders and deliveries for a Japanese food service | Awarded Best Capstone Project — Third Semester Category

github.com/miguelczz/Kakureya

Forest Custodian (2024)

2D video game promoting environmental awareness | Awarded Best Capstone Project — First Semester Category

github.com/miguelczz/ForestCustodian

SKILLS

Languages & Frameworks: Python, TypeScript, Java, SQL, FastAPI, Spring Boot, React, Next.js, TailwindCSS

AI & Agents: Multi-agent systems, Skills, Judge System architecture, Model Context Protocol (MCP), Function Calling, Agentic Tools, RAG, LangChain / LangGraph, LiteLLM, Langfuse, Voice AI (Deepgram, Cartesia), guardrails, LLM and agent evaluation

Data: PostgreSQL (Row Level Security), SQLAlchemy, Qdrant, FalkorDB, Redis, Celery, pgvector, Jupyter Notebook

DevOps & Tools: Docker, GitHub Actions (CI/CD), pytest, Vitest, Playwright, Keycloak (OIDC), Cloudflare, TShark (Wireshark), WhatsApp APIs (Meta/Twilio), Google Cloud Run

EDUCATION

Software Engineering (in progress, sixth semester) — Corporación Universitaria Minuto de Dios

Information Systems Programming Technician — Politécnico Colombiano Jaime Isaza Cadavid

LANGUAGES

English — C1 Advanced (EF SET Certificate, 61/100, 2026)

Spanish — Native