

Roberto Aguirre Guardia

Agentic AI Systems Architect & Technical Leader · Multi Agent Orchestration · LLM · RAG · MCP · Evaluation & Guardrails · Delivery Leadership (15+ yrs)

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PROFILE

Technical leader and architect of **agentic AI systems** with 15+ years designing, scaling and delivering complex software platforms. I design ecosystems where **agents orchestrate agents**: multi agent orchestration, workflow patterns, **guardrails** and reliable autonomy, built on LLMs, **RAG and retrieval, context engineering, evaluation methodologies, token budget management and MCP integration**. I set engineering standards, define **contracts, interfaces and patterns**, make high impact architecture decisions, and mentor engineers toward executable systems. I lead with **evidence** (metrics, benchmarking, observability) and connect it to client value and P&L. My center of gravity is architecture and technical leadership across Python and TypeScript systems.

EXPERIENCE

AI Operations & Engineering Leader · DigitalHubAssist LLC Oct 2024 · Present
Remote · Agentic AI / GenAI Platform

- Architect and operate a **production agentic AI platform**: multi agent orchestration (agents orchestrating agents), workflow patterns and **guardrails** for reliable autonomy.
- Hands on at the **LLM and agent layer**: RAG and retrieval / indexing, **context engineering, MCP integration, agent evaluation and benchmarking, token budget management**. Observability (Langfuse), CI/CD, event driven and cloud native stack (Inngest, Supabase, Vercel, Cloudflare).
- Set **engineering standards, contracts and patterns** and guide implementation across Python and TypeScript systems.
- Flagship product **MedicalHubAssist** recognized by **Revista DINERO** for its value in the Colombia and LATAM market.

Consulting Manager · NTT DATA Apr 2021 · Oct 2024
Bogotá, Colombia · Financial Services

- Led **engineers and cross functional teams** through complex technical decisions, implementation tradeoffs and delivery risk on the office's largest account, with full **P&L** and C level governance.
- Evidence driven delivery: turned ambiguous requirements into executable plans and production quality outcomes.

Digital Transformation Lead · Project Manager · VASS · GlobalHitss · Tecnomcom 2012 · 2021
Bogotá, Colombia · Finance · Healthcare · Government

- More than a decade **architecting and delivering scalable digital platforms**: Porvenir digital channels (millions of users, LATAMDIGITAL 2019), ecommerce, and the digitalization of Colombia's Judicial Branch.
- Translated ambiguous business and technical requirements into **solution architectures and delivery ready implementation approaches** with multidisciplinary teams.

EDUCATION

MBA · Tecnológico de Monterrey Mexico · 2004

B.Sc. Systems Engineering · Universidad de Lima Peru · 1999

SKILLS

Multi Agent Orchestration

Agentic Workflow Patterns & Guardrails

LLM Systems (RAG · Retrieval · Context Engineering)

MCP Integration

Agent Evaluation & Benchmarking

Token Budget Management

Architecture (Microservices · C4 · Contract First)

Observability & CI/CD

Cloud Native & Event Driven Delivery

Python & TypeScript Systems (architect level)

Technical Leadership & Mentoring

P&L & Client Value · MBA