Roberto Aguirre Guardia

Applied AI Engineering Leader · Architects, ships and operates data intensive, multitenant AI systems · Built a production multi agent platform (context graph, permission aware retrieval, evals, observability) · Runs agentic software delivery workflows · Led teams of up to 50 · React/TypeScript, Postgres, pgvector · English C1

Bogotá, Colombia · Open to relocation (Barcelona) · aguirrerjg@gmail.com · +57 317 675 0419 · linkedin.com/in/roberto-javier-aguirre-guardia

SUMMARY

Applied AI engineering leader who architects, ships and operates data intensive, multitenant AI systems. Built and runs a **production multi agent platform** (Agent Squad): a **context graph with provenance**, **permission aware retrieval** over Postgres and pgvector, a **deterministic verification contract**, an **evaluation gate**, and full **observability** (LangFuse, Arize Phoenix). Also built the **agentic software delivery machinery** his own work runs on (design, implementation, PR and code review, QA, with evidence based verification). Started as a **programmer** and stays hands on in data models, permissions, failure modes and reference implementations. Led **multidisciplinary teams of up to 50** with the **lowest turnover of the account**, and advised up to bank presidency. Under his leadership, **DigitalHubAssist** reached **Registered Partner status in Anthropic's partner program**. Spanish native, English C1.

EXPERIENCE

Head of AI, Innovation & Product · **DigitalHubAssist** — Oct 2024 · Present

United States (LLC) · Remote · Production AI platform · Anthropic partner program

- **Architected and operates a production multi agent platform** end to end: a **context graph with provenance and history**, **row level multitenant isolation**, **permission aware retrieval** over Postgres and pgvector, event driven processing (Inngest, Redis) and a worker tier.
- **Owns reliability and safety by design**: a deterministic verification contract, an **evaluation gate**, timeout shadowing before enforcement, idempotent event handling, CI/CD with deploy invariants, and LLM observability (LangFuse, Arize Phoenix, MCP tooling).
- **Built the agentic software delivery workflow** the team runs on (design, implementation, PR and code review, QA), with **evidence based verification** instead of trusting generated output. Under his leadership **DigitalHubAssist** reached **Registered Partner status in Anthropic's partner program**.

Engineering & Delivery Manager · **NTT DATA** — Apr 2021 · Oct 2024

Multinational (GSI Tier 1) · Financial services

- Ran the **software factory for the largest account** (Grupo AVAL) with teams of **up to 50**, accountable for architecture, budget, hiring and results, with the **lowest turnover of the account**. Shipped **CrediCore** (digital credit origination on Azure) to production: **sensitive financial data**, fragmented legacy integrations, presidency level stakeholders. Directed a major RPA program.

Project / Delivery Manager · **VASS · GlobalHitss · Tecnocom** — 2012 · 2021

Banking · Insurance · Health · Public sector

- Delivered **critical transactional platforms at scale**: Porvenir digital channels (millions of users, **LATAMDIGITAL 2019 award**), the Colombian Judicial Branch portal (BID funded), with migration to Azure, focused on stability, testability and performance.

SKILLS

Systems & architecture: data intensive and distributed systems, context graph with provenance, multitenant isolation and row level security, semantic retrieval (pgvector), event driven processing (Inngest, Redis), idempotency, reliability and failure mode design

Applied AI: production multi agent orchestration, LLMs (Anthropic Claude and others), RAG, MCP tool calling, prompt engineering, evaluation harnesses and gates, LLM observability (LangFuse, Arize Phoenix), token and cost economics

Security & operations: authentication and authorization, tenant isolation, OWASP for LLM applications, auditability, CI/CD and deploy invariants, incident awareness, cloud (Azure), Docker

Leadership & execution: architecture ownership, hands on reference implementations, agentic software delivery workflows, hiring and team building, teams of up to 50, lowest turnover of the account, product and customer conversations, roadmap and spend ownership

Stack & languages: TypeScript, Node.js, React, Postgres, pgvector, Docker, Azure; Python for tooling; Systems Engineering (U. de Lima), MBA (Tec de Monterrey) · Spanish native, English C1