

Roberto Javier Aguirre Guardia

Senior AI Advisor & Solution Architect

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Remote · CST timezone · Available · Professional English

PROFESSIONAL SUMMARY

Senior AI Advisor and Solution Architect with 26 years in technology —15 of them in tier-1 transnational programs with revenue at risk and regulatory scrutiny— specialized in helping enterprise clients **design, adopt, and scale AI-driven solutions that deliver measurable business value**. I design AI systems that survive production, roadmaps that survive a CFO, and backlogs that survive a real user. I operate across **strategy, architecture, and client advisory**, bridging business objectives with advanced AI capabilities —LLMs, GenAI, multi-agent systems, MLOps— and translating them into executive decisions while **balancing business value, scalability, feasibility, and risk**. Equally comfortable challenging agent topology or retrieval strategy in an architecture review and defending an 18-month AI roadmap before a CFO, CRO, and board, with evidence-based prioritization over hype. I facilitate executive workshops and communicate complex AI concepts to both technical and non-technical stakeholders across multidisciplinary Agile delivery environments. MBA from Tecnológico de Monterrey.

ADVISORY & CONSULTING ENGAGEMENTS

DIGITALHUBASSIST AI — Head of AI & Solution Architect

2024 – Present · digitalhubassist.ai

Lead the strategy, product, and architecture of production-grade AI solutions for enterprise clients across LATAM, combining executive advisory with end-to-end technical implementation — from organizational maturity assessment to the deployment of coordinated autonomous systems in the cloud.

→ **Agent Squad AI** (agentsquadaai.com)

- Designed the strategic and technical architecture of an enterprise multi-agent orchestration platform: 16 autonomous AI agents coordinated in production (Project Manager, QA Lead, Dev Team, Growth, Content, Research) under a supervisor agent with a human gate before production.
- Defined AI adoption roadmaps for clients: organizational maturity assessment, identification of highest-ROI use cases, and transition from manual processes to automated workflows.
- Implemented the full AI lifecycle: RAG pipelines with vector retrieval, automated evaluators, end-to-end observability (Langfuse), and cost-aware multi-provider model routing — with unit economics behind every component.
- Portable cloud-native architecture (Docker, GitHub Actions CI/CD, Supabase, Redis, Inngest for durable workflows) with integrations to AWS/Azure/GCP services per use case.
- Facilitated executive workshops to define automation KPIs, AI governance, and scalability plans with clients across LATAM.

→ **LPDI Relacionamento** (eco.lpdi.co) — Impact investment fund

- Digital transformation advisory for an impact investment fund: automated 260+ project cycles with AI on a portfolio management platform.
- Defined the data strategy and solution architecture: SvelteKit 5 SSR, Supabase (auth + RLS + PostgreSQL), embedding-based semantic search, and a notification system.
- Implemented an automated QA pipeline with a dual gate (E2E + client approval), raising delivery consistency and stakeholder confidence on every release.
- Supported the leadership team in product roadmap definition, feature prioritization, and expectation management with an Agile framework adapted to the fund's context.

→ **MedicalHubAssist** (medicalhubassist.ai) — Healthcare

- AI solution architecture for healthcare: voice-based intake (ASR with Whisper), automated teleconsultation, RAG over clinical history with pgvector, and automation of critical processes with LLMs.
- Data readiness and regulatory compliance assessment prior to solution design; definition of privacy controls and clinical data governance.
- Featured in Revista DINERO for the platform's impact on Latin America's digital health ecosystem.

PRIOR ENTERPRISE EXPERIENCE

NTT DATA COLOMBIA — Consulting Manager — Digital Transformation

Apr 2021 – Sep 2024 · Financial sector

- Led the office's largest consulting account for Grupo AVAL (Colombia's largest financial holding), delivering digital transformation programs in an environment where every decision passed through banking compliance.
- C-level stakeholder management: presented technology adoption roadmaps, facilitated strategic alignment sessions, and reported KPIs to executives.
- Coordinated multidisciplinary Agile teams (architecture, development, QA, change management) to deliver high-complexity enterprise solutions.

VASS COLOMBIA · GLOBAL HITSS · TECNOCOM — Project Manager & Tech Lead — Sector Consulting

Aug 2012 – Apr 2021

- 9+ years leading digital transformation projects across financial services, healthcare, utilities, and government — Porvenir, Colsanitas, Cardif, Colombia's Judicial Branch.
- Designed and facilitated requirements-gathering workshops, defined solution architecture, and led organizational change management with client teams.

INDRA · SOLUZIONA (GRUPO UNIÓN FENOSA) — Early Career — Engineering & Project Management

2000 – 2012 · Utilities sector

- Development and project management of information systems for the utilities sector, with deployments across Peru, Argentina, Panama, and Colombia.

AI & SOLUTION ARCHITECTURE CAPABILITIES

GenAI & LLMs (Strategy + Implementation)

Claude (Anthropic) · OpenAI GPT-4o · Google Gemini · LangChain / LangGraph · RAG with semantic reranking · pgvector / pgvectorscale embeddings · structured outputs · function calling · use-case- and cost-based model routing · coordinated multi-agent systems · prompt engineering · model evaluation with Langfuse

Cloud & MLOps

Integration and deployment of AI solutions on AWS / GCP / Azure · Docker · GitHub Actions CI/CD · Supabase (auth + edge functions + PostgreSQL) · Redis · Inngest (durable workflows) · Cloudflare Workers & R2 · nginx · observability with Langfuse (traces, scores, evals in production) · end-to-end MLOps

Data & AI Lifecycle

Data readiness assessment · PostgreSQL schema design and migrations · embedding-based semantic search · ASR with Whisper (NLP) · familiarity with Computer Vision use cases · LLM evaluation and benchmarking · data governance and privacy controls · end-to-end MLOps (data readiness → model development → evaluation → deployment)

Full-Stack & Platforms

Python (asyncio, FastAPI, Pydantic) · Node.js / TypeScript · SvelteKit 5 (SSR) · React / Next.js · Playwright E2E + visual regression · Slack & Telegram Bot APIs · Vercel

CONSULTING & ADVISORY COMPETENCIES

AI Strategy & Transformation Roadmap

Organizational AI maturity assessment (people, process, data, tech). Identification of highest-ROI use cases. Construction of phased adoption roadmaps. Alignment of AI initiatives with business objectives and presentation to C-level stakeholders.

Workshop Facilitation & Stakeholder Management

Facilitation of discovery, design-thinking, and executive alignment sessions. Communication of complex AI concepts to technical and non-technical audiences. Expectation management, change management, and solution adoption across enterprise organizations.

Enterprise Solution Architecture

Design of cloud-native AI/ML architectures. Definition of integration contracts between systems. Build vs. buy evaluation. Technical-debt review and scalability strategies, balancing business value, feasibility, and risk. Coordination of multidisciplinary Agile teams (product, design, engineering, data).

KEY ACHIEVEMENTS

- Architect of one of the first enterprise multi-agent platforms operating in LATAM — 16 AI agents coordinated in production 24/7, with full observability and failure recovery.
- Led the office's largest consulting account for Grupo AVAL, Colombia's largest financial holding.
- 260+ production deployments at LPDI with dual-gate QA (E2E + client approval).
- Featured in Revista DINERO for MedicalHubAssist's impact on Latin America's digital health ecosystem.
- Founding Professor of the Innovation course, Universidad Sergio Arboleda — designed the program and taught it across 3 cohorts, communicating complex concepts to non-technical audiences.
- 9+ years leading enterprise projects in regulated sectors (financial, healthcare, government) across Colombia, Peru, and Mexico.

EDUCATION & CERTIFICATIONS

MBA — Strategy & Business Policy · Tecnológico de Monterrey, Mexico · 2006

B.Sc. Systems Engineering (Top Third of Class) · Universidad de Lima, Peru · 1999

Continuing education & certifications · Anthropic · Scrum Foundation (CertiProf) · Liferay DXP Certified Professional

LANGUAGES

Spanish: native (Peru / Colombia) **English:** professional — fluent executive communication, workshop facilitation, technical documentation, C-level presentations, and syncs with international teams