

Alvaro Villalba Perez

+34 644 14 90 73 · alvaro.villalbaperez@icloud.com · Madrid, 28003
<http://www.linkedin.com/in/alvarovillalbaperez> · <https://github.com/alvarovillalbaa> · <https://www.alvarovillalba.com>

ABOUT

AI Engineer with 3+ years building AI Agents, RAG pipelines, and production AI infra on AWS and Azure. Designed and shipped an AI-native HR platform from zero to enterprise pilots, integrating OpenAI/Anthropic/Google/XAI, MCP, fine-tuning and evals with +23% performance gains over the initial stack.

PROFESSIONAL EXPERIENCE

Iberia Airlines (via Alten) April 2026 - Present
AI QA Architect

Defined, led and executed 3 projects regarding QA Automation for Iberia Airlines' AI product called 'iBot': an AI chatbot that currently saves 25% of the time to Iberia's support call center. Such projects were about AI Evals for CI/CD releases, an app of QA Agents for E2E testing, and Playwright for functional testing.

Clous July 2023 - Present
Engineering & Product Lead

- Built Clous from scratch, an AI-native HR platform using agentic architectures (tool use + routing) with memory and Human-in-the-Loop controls. Shipped production systems on AWS + Azure with Python/Django, PostgreSQL, Redis, Celery, ECS/Fargate, S3, and Next.js/TypeScript/Tailwind.
- Designed core AI architecture for HR workflows (hiring, performance, development): multi-agent system, RAG (S3 Vectors) and Knowledge-Graph RAG (Neo4j), plus integrations with MCP Apps and Slack Bot.
- Cut TTFT to <3s while improving throughput by ~23% through routing, caching, and context engineering
- Owned product discovery and delivery end-to-end: ran 30+ interviews with HR leaders, translated insights into roadmap priorities, closed 2 paid GenAI pilots, and led a 4-person team + 2 advisors across backlog and technical decisions.

Orygen February 2022 - July 2022
Interim Technology Lead

Defined the early technical roadmap and vendor strategy for a climate-tech startup, building financial models and simulations to support fundraising and product decisions.

JP Alcaraz Summer 2019 and 2020
Engineering Intern

Supported maintenance and troubleshooting of naval electronics across multiple suppliers, collaborating with defence-sector stakeholders (Ministerio de Defensa).

EDUCATION

Aerospace Engineering – 2018 - 2023
Majors: Aerospace Propulsion
Universidad Politécnica de Madrid

Bachillerato with Matrícula de Honor
IES El Bohío

GCSEs - British Curriculum
King's College of Murcia

CERTIFICATIONS

Santander X Launch 5.0
Babson College with Banco Santander

Google Project Management
Google

Applied Data Science with Python
University of Michigan

C1 English Certificate
Cambridge English

SKILLS AND FRAMEWORKS

- Backend & APIs: Python, Django, REST APIs, PostgreSQL, Redis, Celery
- AI Systems: RAG, Knowledge Graph, Multi-Agent Systems, Agents SDK, MCP & MCP Apps, Prompt/Context Engineering, Evaluations, Fine-Tuning
- Cloud & Infra: AWS (ECS/Fargate, S3, RDS), Docker, Azure, Heroku, GCP
- Frontend: React, Next.js, TypeScript, Tailwind, Figma
- ML (supporting): PyTorch, TensorFlow, scikit-learn