Òscar Gallés Argemí

TECH LEAD · PROJECT AND TEAM LEAD · AUBAY SPAIN · BARCELONA

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Profile

Tech Lead with a background in telecommunications engineering and data science. I design and build software end to end, from architecture to cloud deployment and production support, and lead an 8-person team across 10+ projects. Generative AI (LLM assistants, RAG and agents) is one of my specialties. Before that, I spent more than three years in applied machine learning research in healthcare.

Experience

AI Tech Lead · Project Lead

Oct 2025 – now

Aubay Spain · Barcelona

I lead an 8-person team and run 10+ projects: planning, staffing, delivery tracking, effort and budget control, and the technical relationship with clients. I own the technical governance of our solutions (architecture, cloud deployment, monitoring and continuous improvement) and lead presales, with 90+ technical proposals.

AI Consultant

Nov 2024 – Sep 2025

Aubay Spain · Barcelona

Designed and delivered AI solutions end to end, mostly LLM-based: RAG assistants and chatbots over internal documentation, document classification and workflow automation, integrated with existing APIs and enterprise systems and deployed to the cloud.

AI and Health Research Engineer

Apr 2021 – Nov 2024

Parc Taulí University Hospital · Sabadell

Machine learning and data processing in the joint research unit of Parc Taulí and the Autonomous University of Barcelona: risk stratification and outcome prediction in chronic kidney disease, on cohorts of up to 10,000 patients followed for 11 years.

Soft skills

- Project management
- Resource allocation
- Presales and technical proposals
- Client relationship management
- Team leadership and mentoring
- Effort estimation and budgeting
- Solution design and architecture
- Business communication

Education

MSc in Data Science

Universitat Politècnica de Catalunya (UPC)
2023 – 2025 · All coursework completed, with 2 honours. Master's thesis pending.

BEng in Telecommunication Systems Engineering

Universitat Autònoma de Barcelona (UAB)
2018 – 2022 · 5 honours.

Technical skills

Programming
Python, SQL, Java, C, R, MATLAB, FastAPI, Docker, Git, CI/CD, GitHub Actions

Generative AI
LLMs, RAG, AI agents, LangGraph, LangChain, MCP, Prompt engineering, OpenAI API, Voicebots

Cloud
Azure OpenAI, Azure AI Foundry, Azure AI Search, Azure Functions, Azure App Service, AWS, Amazon Bedrock, Google Cloud

Data and ML
pandas, scikit-learn, TensorFlow, Keras, Spark, Matplotlib, Tableau

AI-assisted development
Claude Code, Codex, Skills, MCP, Harness engineering, Spec-driven development (SDD)

Languages

Catalan	Native
Spanish	Native
English	C1

Professional projects

HEALTHCARE · PUBLIC HOSPITAL

Multilingual voicebot for patient appointments

A real-time voice agent that calls patients in several languages, answers questions with RAG, hands over to a person when needed and shows live calls on a web dashboard. Built with infrastructure as code and 600+ automated tests.

`Azure OpenAI Realtime · Azure Communication Services · TypeScript · Nuxt · PostgreSQL + pgvector · Bicep`

INSURANCE · INTERNATIONAL GROUP

Automated audits of websites worldwide

An event-driven serverless platform that analyses each site and scores it by combining deterministic image analysis and LLMs. Backed by 250+ automated tests.

`Azure Functions · Service Bus · Bicep · Playwright · React · Azure OpenAI`

OWN PRODUCT · SAAS

Multi-tenant platform for building AI assistants

A shared platform where each organisation builds, trains and publishes its own assistants, with data isolated per tenant, everything hosted in the EU, usage-based cost control and a dedicated mode for clients who need it in their own cloud.

`Azure Container Apps · Azure OpenAI · PostgreSQL row-level security · Entra ID · Terraform · RAG`

PUBLIC SECTOR · REGIONAL ADMINISTRATION

AI review of complete administrative case files

A multimodal AI pipeline that reads the whole file (scans, forms and attachments), classifies every document, checks it against the requirements of the procedure and drafts a proposed resolution for the case officer. It works for any administrative procedure. Deployed with infrastructure as code.

`Multimodal LLM · Amazon Bedrock · Textract · AWS Lambda · ECS · Terraform`

Personal projects

OWN PRODUCT · SAAS

Automated Google review management for businesses

Subscription SaaS that syncs Google Business Profile reviews, classifies them with AI and drafts and publishes replies in each business's tone, with one-click approval from email.

`Next.js · TypeScript · PostgreSQL · OpenAI · Google Business Profile API · Stripe · Coolify`

PERSONAL FINANCE · AI

Personal wealth tracker with an AI assistant connected to the banks

Web app connected to the banks through open banking (PSD2) and to the investment manager's API, with a tool-using AI assistant with charts, an MCP server with OAuth for Claude and deployment on Hetzner behind Cloudflare Access.

`Python · FastAPI · SQLite · Open banking (PSD2) · Claude API · MCP + OAuth · Docker · Cloudflare Tunnel · Hetzner`

PROJECT MANAGEMENT · MCP

Project and team capacity control

App to control budgets, hours and team capacity, reconciled with the corporate timesheet portal, with an MCP server so Claude or ChatGPT can read and change the data.

`Next.js · React · TypeScript · MCP · Playwright`

SPORT · AI

AI running coach connected to a Garmin watch

AI running coach connected to Garmin Connect, with a voice-driven watch app and an MCP server: it adapts workouts to sleep, HRV and completed training and schedules them on the watch.

`Python · FastAPI · SQLite · Garmin Connect · Connect IQ (Monkey C) · Claude API · OpenAI speech-to-text · MCP + OAuth · Docker`

Publications

Artificial intelligence for predicting heart failure in chronic kidney disease: analysis of a 5,000-patient cohort. Nephrology Dialysis Transplantation 39 (Suppl 1), 2024.

Prediction of chronic kidney disease progression with artificial intelligence: a challenge within our reach. Nephrology Dialysis Transplantation 38 (Suppl 1), 2023. First author.

Machine learning and deep learning prediction of mortality in chronic kidney disease, developed with data from 10,000 patients over 11 years. Nephrology Dialysis Transplantation 37 (Suppl 3), 2022; also in Kidney International Reports (World Congress of Nephrology 2022).

Talks at the Taulí Health AI Symposium (2023 and 2024) and the Catalan Society of Nephrology annual meeting (2024).