

Josep-Àngel Herrero Bajo

Senior Staff Software Engineer at Meta (IC7)

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EXPERIENCE

Meta · Menlo Park, California

2019–Present

Senior Staff Software Engineer (IC7)

- Redesigned and rewrote the WhatsApp message store, earning a “Redefines Expectations” performance rating.
- Built infrastructure supporting WhatsApp Channels and generalized the storage layer into a reusable platform capable of holding all WhatsApp data.
- Received a 2026 Meta Award, recognizing top-1% company impact, for infrastructure work.

Google · Search Infrastructure

2017–2019

Software Engineer

- Extended Google Search infrastructure into a multi-tenant search service used by multiple Google products as part of a major multi-year effort.

Google · Core Infrastructure, Kernel / Cluster

2016–2017

Software Engineer

- Implemented a POSIX user-space filesystem on Colossus, an append-only distributed filesystem, for Google App Engine sandboxes.

Google · Storage Infrastructure

2012–2016

Software Engineer

- Designed and implemented encryption-at-rest and access-control systems from the ground up for Google Cloud Storage, establishing foundational data-protection and authorization capabilities at exabyte scale.
- Contributed to the v2-to-v3 rewrite, reimplemented v1 functionality, and enabled retirement of the legacy system.

Google · Gmail Backend / Storage Systems

2010–2012

Software Engineer

- Helped migrate Gmail data from a Google File System (GFS)-based storage system to a new storage architecture built on Megastore and Bigtable; built migration pipelines, achieved feature parity, and resolved long-standing edge cases.

Google internships: Google Earth (2009) - built a production pipeline realigning 3D buildings to updated satellite imagery; Google Maps (2008) - prototyped building rendering.

EDUCATION & SKILLS

Universitat Politècnica de Catalunya — BSc / MSc, Telecommunications Engineering (Electrical Engineering), 2004–2010

Stanford summer coursework, 2003–2004: Compilers, algorithms, operating systems, digital filtering, statistical signal processing, computer systems seminar, and feedback control.

Technical skills: C/C++, Python, Golang, Erlang, CUDA, x86 assembly

HONORS & RECOGNITION

2026 Meta Award — top 1% company recognition for infrastructure impact.

2021 Meta “Redefines Expectations” — for redesigning and rewriting WhatsApp message storage.

Google — 7 Spot bonuses, 7 Peer bonuses, and 2 Technical Infrastructure awards.

ACM ICPC — World Finals: 36th (2010), 49th (2009); SWERC: Gold (2008, 2009), Silver (2007).

CERTIFICATIONS & LANGUAGES

Certifications: FAA Private Pilot - Airplane Single-Engine Land (High Performance and Complex endorsements); FAA Instrument Rating - Airplane; Coursera Deep Learning Specialization (Sep 2018).

Languages: Catalan (native), Spanish (native), English (full professional), French (full professional)