

José Miguel Hernández García

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Summary

Senior Software Engineer with 7+ years of experience building production backend platforms, cloud infrastructure, AI systems, and digital products. Deep expertise in Python, distributed systems, Google Cloud Platform (GCP), Amazon Web Services (AWS), and generative AI. Currently building Gemini-powered document platforms at Sngular while co-building Arche, shipping native macOS tools in Swift, and running Magua.

Experience

Senior Software Engineer, Sngular – Spain

Oct 2024 – present

- Architected an LLM-powered, microservices-based document-processing system using Gemini, MongoDB Atlas vector search, and Apache Kafka, processing hundreds of financial documents for a leading investment platform
- Built shared OpenTelemetry instrumentation and end-to-end trace propagation across Apache Kafka, MongoDB, gRPC, and Gemini calls in asynchronous Python workflows
- Designed multi-agent systems with Python and Google ADK while delivering GCP migrations and Kubernetes operations within Sngular's Google Partner team

Backend Developer, Intelygenz – Spain

Mar 2022 – Oct 2024

- Led end-to-end development of a permissions management platform for a major Spanish bank, serving 1,000+ users across multiple business units
- Developed it from scratch with FastAPI, PostgreSQL, and MongoDB on GCP with CI/CD; also delivered Python, Flask, NATS, and Go services across client engagements

Cloud Computing Engineer, Wazuh Inc. – Spain

Feb 2019 – Mar 2022

- Managed multi-tenant Kubernetes infrastructure on AWS (~50 clients, each with isolated namespace), processing 1,000+ security events/day through Wazuh → Elasticsearch → Kibana pipeline
- Led a zero-downtime monolith-to-microservices transformation and built SaaS Console APIs with Python, Flask, AWS Lambda, API Gateway, and RDS

Education

Universidad de Granada, BS in Computer Science – Granada, Spain

2015 – 2020

Projects

Arche — AI Agent Platform (Peaberry Studio)

Jan 2026 – present

- Co-founded Peaberry Studio to build Arche, an open-source platform combining specialized AI agents, shared versioned knowledge bases, Model Context Protocol (MCP) integrations, and desktop/self-hosted deployments (Next.js 16, TypeScript, PostgreSQL, Electron, Podman)

Magua — Independent Web Studio

Sept 2026 – present

- Created Magua, an independent web studio focused on performance-first websites; delivered Tinasoria Apartments for Tinasoria Capital using Astro, TypeScript, Google Sheets availability integration, MapLibre, Vitest, and Playwright

Moonglade — Native macOS Agent Monitor

July 2026 – present

- Created a native macOS app in Swift and Metal that tracks coding-agent sessions around the MacBook notch and focuses the exact terminal tab or pane using event-driven process monitoring

PodTap — macOS HID Utility

Aug 2026

- Built a Swift utility using IOKit and CoreGraphics to intercept USB-C EarPods HID events and remap the remote as a dictation switch, backed by hardware-independent state-machine tests

Skills

Programming: Python (Expert), TypeScript, Swift, Go, SQL

Backend & Distributed Systems: FastAPI, Flask, REST APIs, Apache Kafka, NATS, Microservices

AI & Agent Systems: Generative AI, Gemini, Google ADK, OpenCode SDK, Model Context Protocol (MCP), Multi-Agent Systems, Vector Search

Cloud & Observability: Google Cloud Platform (GCP), Amazon Web Services (AWS), OpenTelemetry, OTLP

DevOps: Docker, Kubernetes, Podman, Terraform, Ansible, CI/CD

Web & Desktop: Next.js, React, Astro, Electron, Native macOS, Metal

Databases: PostgreSQL, MongoDB Atlas, Redis, SQLite

Languages: Spanish (Native), English (Professional)