

Omar Jesús Hernández Bastos

Lead Applied AI Engineer, FinTech. Valencia, Spain.

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SUMMARY

Applied AI & engineering leader with 10+ years building software products, scaling teams and shipping AI in regulated financial environments. Currently Engineering Director, Digital Banking, AI & Data at Blossom.

EXPERIENCE

Engineering Director, Digital Banking and AI, Blossom

Jun 2025 to present

- Leads Digital Banking, AI and Data for credit unions across the United States, with 3 engineering managers and 7+ technical leads.
- Legacy core banking modernization and the migration to cloud-native systems.
- Founded AI engineering and built Blossom Ask, an enterprise AI assistant and agent framework on AWS.
- Productized an AI-powered Loan Origination System: agentic lending for U.S. credit unions.
- Brought MCP to banking; AWS partnership liaison, with 6+ AWS-led workshops on Generative AI and Bedrock.
- Built a new team every year: online banking, back office and super admin, then founded the data team and AI engineering.
- 60+ engineers led, directly and indirectly; 200+ employees impacted.
- 60+ professionals interviewed and hired directly; 12+ leaders and go-to people trained.

Engineering Manager, Online Banking, Blossom

May 2024 to Jun 2025

- Scaled the team from 12 to 16 developers.
- Led the architectural decisions for the multi-tenant SaaS transformation.
- Introduced AI-powered code review tools and set up data engineering practices.
- Championed AWS Well-Architected Framework adoption across all teams.

Technical Lead, Banking, Blossom

Jul 2022 to May 2024

- Architected core banking features from inception through a 2-year development cycle.
- Led critical production launches, with preventive measures for major client deployments.
- Managed the technical integration with fintech products and third-party systems; set the code review standards.

Full Stack Engineer, Blossom

Jun 2021 to Jul 2022

- Contributed to the foundational banking architecture from project inception.
- Built frontend and backend features for critical banking operations; promoted to Technical Lead within one year.

Tech Lead, Metax Americas

Mar 2020 to Apr 2021

- Built a cross-platform web application with Vue.js and Firebase for the maintenance of oil and gas machinery, such as pumps and furnaces.
- A prototype first, then a full MVP from scratch: charts, an alert system, an administrative dashboard for tickets and maintenance tracking, and a Wrike integration.

Head of Web Development, Fix4U Solutions

Jun 2018 to Mar 2020

- Designed and built 14 websites with React, Vue and WordPress.
- Reported directly to the board of directors.

Freelance developer, Fiverr

Jun 2016 to Jan 2018

- Custom websites for clients with React, Vue, HTML5 and CSS3, from PSD and Figma designs, while studying electronic engineering.
- Demos, proofs of concept and MVPs with Vue.js and React.

SELECTED PROJECTS

CrimsonDesert.app (live site) crimsondesert.app

A Crimson Desert fan wiki with an interactive map of 9,300+ markers. 37k visitors in its first week.

codigopostal.app (live site) codigopostal.app

Your Spanish postal code from your device location, with the official IGN street map.

jevmod (live site) jevmod.dev

Moderation for communities and apps: probabilities per category, thresholds you own.

interactive-cli (open source) github.com/ohernandezdev/interactive-cli

An MCP server that lets AI coding agents drive interactive command line programs.

wtkill (open source) github.com/ohernandezdev/wtkill

Finds and cleans stale git worktrees across all your repos, for humans and for AI agents.

Silkroad Online, in the browser (browser port) hernandezbastos.es/silkroad

Silkroad Online, a 2005 MMORPG, ported to WebGL with AI: playable in the browser, with the world, combat, skills and the original interface.

KnoxGPS (game mod) steamcommunity.com/sharedfiles/filedetails/?id=3785238102

A road GPS inside Project Zomboid: set a destination on the map and the shortest road route is drawn, with live distance. 2,500+ subscribers, and translated into Chinese by the community.

Pickup Livestock (game mod) steamcommunity.com/sharedfiles/filedetails/?id=3785685590

500+ subscribers.

SKILLS

Generative AI, LLMs, AI Agents, RAG, Embeddings, Vector Search, Prompt Engineering, LLM Fine-Tuning, AWS Bedrock, Python, Node.js, TypeScript, PostgreSQL, pgvector, GraphQL, Terraform, Serverless, FinTech, Engineering Leadership.

EDUCATION

Electronic Engineer, Universidad Nacional Experimental del Táchira (UNET)

2013 to 2019

CONTACT

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