

PABLO CASTAÑEDA

SENIOR SOFTWARE ENGINEER - AI ENGINEER - LLM OPS

📍 Asturias, Spain |  LinkedIn |  GitHub |  Portfolio

ABOUT ME

Senior Full-Stack & AI Engineer with expertise in building highly scalable microfrontends and deploying custom AI agents. Adept at bridging the gap between robust frontend development (React/Node.js) and advanced AI toolings (MCPs, Hermes). Strong focus on code quality, token optimization, and delivering measurable business results through agile methodologies and AI-driven workflows.

TECHNICAL SKILLS

- **Frontend:** JavaScript | React | Next.js | Microfrontends | Context API | HTML/CSS
- **Backend & Data:** Node.js | MongoDB | GraphQL | RESTful APIs
- **AI & Prompt Engineering:** Custom AI Agents (Hermes) | Model Context Protocol (MCP) | Token Optimization | Prompt Architecture
- **AI-Assisted Tools:** Cursor | Claude Code | GitHub Copilot CLI
- **Testing & QA:** Cypress | React Testing Library (RTL) | Unit, Integration & E2E Testing | A/B
- **Testing Methodologies:** Agile | Code Reviews | CI/CD workflows | Mentorship

PROFESSIONAL EXPERIENCE

eDreams ODIGEO
SENIOR SOFTWARE ENGINEER
May. 2025 - Present

AI Engineering & Leadership:

- Led the enterprise-wide AI adoption strategy by creating federated ecosystems for skills, agents, and MCPs.
- Created secure authoring tools for deploying custom AI solutions, including the implementation of Hermes agents.
- Reduced operational costs by optimizing token consumption and designing robust rule sets for high-accuracy AI outputs.
- Mentored the engineering team on AI-assisted workflows (Cursor, Claude Code, Copilot CLI) to accelerate the software development lifecycle.

Frontend & Full-Stack Development:

- Developed clean, scalable features utilizing a modern tech stack (React, Next.js, Microfrontends, Node.js, MongoDB).
- Monitored A/B testing metrics and conducted technical analyses to generate value propositions and technical improvements.
- Upheld agile best practices and code quality through continuous code reviews and robust testing frameworks (RTL, Cypress).
- Integrated and maintained complex data architectures using GraphQL and RESTful APIs.

CitNOW GROUP

SENIOR FULL-STACK ENGINEER

May 2024 - May 2025

Chat system providing support to automotive companies and dealerships, integrating with various services to manage third-party information.

- Develop and maintain a responsive frontend in React.js, ensuring seamless integration with backend services.
- Design and implement custom middleware solutions for server-driven UI, enabling efficient cross-platform iterations and rapid deployments.

eDreams ODIGEO

SENIOR FRONT-END SOFTWARE ENGINEER

Nov. 2021 - May 2024

- Develop new features while following best practices for clean, scalable code.
- Monitor testing metrics, including A/B testing.
- Conduct technical analyses to identify improvements and generate value propositions.
- Perform code reviews, provide constructive feedback, and receive feedback from team members.
- Apply agile methodologies to the workflow.
- Propose and support the implementation of new technologies.
- Actively participate in technical and product analyses for new improvements.

MERCADO LIBRE

SOFTWARE DEVELOPMENT ANALYST

Feb. 2021 - Oct. 2021

- Designed, implemented, and launched the "Mercado Pago Digital Accounts," enabling money in and money out for users across LATAM.
- Integrated the frontend in React.js with various backend services, using an in-house middleware framework.
- Engineered an in-house middleware framework to support server-driven UI, enabling rapid iterations across platforms.

FLEX SALES

SOFTWARE DEVELOPMENT ANALYST

Jan. 2018 - Feb. 2021

Flex Sales is a system that automatically creates e-commerce websites, enabling B2B companies to sell their products without holding inventory. It leverages the dropshipping sales model to its fullest potential.

My main responsibility was to **manage the development team and collaborate with clients and external IT suppliers** to meet client needs, deadlines, and ensure resource optimization.

- Worked as a Senior Full Stack Developer, coding and coordinating development and programming activities.
- Acted as a functional analyst, liaising between different stakeholders.

HORMICON
SEMI-SENIOR FULL-STACK DEVELOPER

Jan. 2015 - Dec. 2016

Worked for Hormicon - Hormiline, a company specializing in concrete manufacturing for real estate developments. In this project, I worked on factory and warehouse automation, integrating accounting systems with costs and the Work Breakdown Structure (WBS).

The project had two main goals:

- Automating electronic dashboards to regulate processes related to concrete pumping into trucks.
- Developing a web platform that integrated data from the concrete pumping systems into the ERP system, enabling real-time invoicing.

I efficiently coordinated both the web development team and the automation team.

HCP TECHNOLOGIES
JUNIOR FULL-STACK DEVELOPER

Jan. 2014 - Dec. 2015

Designed and developed HCP's Satellite Tracking System, enabling real-time tracking of over 100 vehicles using Java, MySQL, and Google Maps API.

Programmed Atmel controllers for GPS tracking and coordinated hardware and software teams to ensure optimal performance.

The system was built from scratch in the R&D department.

iTOUCH 3D
COMPANY OWNER
May 2011 - May 2013

Inventor and owner of iTouch 3D, a multiplatform device sensitive to movement, integrated with C++.

Traveled to Spain, supported by Argentina's government, to develop the technology, and later visited China for manufacturing.

Used Java for device configuration and calibration on PC. Programmed microcontrollers in C and C++ for integration with the device.

iTouch 3D featured an accelerometer and gyroscope to detect real-time aerial movements, similar to the Nintendo Wii. The device had a wireless receiver connected via USB to any OS, with automatic driver installation for mouse, keyboard, and joystick functions.

EDUCATION

UNIVERSIDAD TECNOLÓGICA NACIONAL
INFORMATION SYSTEMS ENGINEERING
2006 - 2011

Studied for 4 years, did not complete the degree.

LANGUAGES

Spanish: Native

English: C1 Level