

# Hugo Lazaro Cruz de la Torre

Senior Full Stack / AI Engineer  
Barcelona, Spain

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**Senior Full Stack Engineer** with **10+** years of experience building scalable web platforms, **AI-powered** products, and operational systems across aviation, healthcare, media, and e-commerce.

Specialized in modern **React/Next.js** ecosystems, **TypeScript**, backend architecture with **Node.js** and **Python**, and **AI** integrations using **AWS Bedrock**, **LangGraph**, and real-time conversational systems. Focused on product quality, developer experience, performance, and scalable frontend/backend architecture.

## PROFESSIONAL EXPERIENCE

### IAG/IAGGBS

Lead Full Stack Developer

**Barcelona, Spain**

*April 2025 – present*

- Built an AI-powered operational analytics platform for aviation focused on TAT reduction and AOG tracking. Developed a real-time assistant using AWS Bedrock, LangGraph and SSE streaming with analytics dashboards and KPI monitoring. Designed scalable frontend/backend architecture with React 19, Next.js, FastAPI and PostgreSQL including testing, observability and CI workflows.
- **Stack:** React 19, Next.js, FastAPI, PostgreSQL, AWS Bedrock, LangGraph, Playwright, Docker, Datadog.

### Cuatro/Mediaset

Lead Full Stack Developer

**Barcelona, Spain**

*July 2025 – January 2026*

- Rebuilt a legacy multimedia evaluation platform from scratch using modern full stack architecture. Improved performance and usability through scalable React/Next.js systems and optimized operational workflows. Integrated AI-assisted features and deployed the platform in a high-traffic production environment.
- **Stack:** Next.js 15, React 19, PostgreSQL, Prisma, Tailwind CSS, Shadcn/UI.

### IBERIA

Lead Full Stack Developer

**Barcelona, Spain**

*November 2023 – March 2025*

- Led frontend modernization initiatives reducing TAM platform load times by 40%. Developed integrations and event-driven workflows across Iberia's DPX operational ecosystem. Built scalable backend services and testing infrastructure.
- **Stack:** React, NestJS, GraphQL, Kafka, AWS, Cypress, Docker.

### Call Me Mobility

Lead Full Stack Developer

**Barcelona, Spain**

*June 2024 - October 2024*

- Built a full car rental platform [Call Me Mobility](#) with real-time booking and payment systems.
- **Stack:** Next.js, Prisma, PostgreSQL, Stripe, Auth.js

### Sivascalzo

FrontEnd Developer

**Barcelona, Spain**

*February 2023 - October 2023*

- E-commerce frontend modernization and performance improvements.
- **Stack:** Next.js, GraphQL, Tailwind CSS

### 2IG

Full Stack Developer

**Barcelona, Spain**

*April 2023 - July 2023*

- Contributed to the development of an investment management platform focused on performance, scalability and secure financial operations.
- **Stack:** Next.js, TypeScript, GraphQL, Node.js, PostgreSQL, TypeORM, AWS.

**SITA** **Barcelona, Spain**  
Full Stack Developer *August 2022 - February 2023*

- Worked on Mission Control, a web/mobile platform for airline operational communication and real-time flight coordination used by major international airlines.
- **Stack:** React, TypeScript, Node.js, MongoDB, Microsoft Graph API.

**ACL** **La Habana, Cuba**  
Full Stack Developer *January 2021 - May 2022*

- Contributed to healthcare, logistics and project management platforms including digital admission systems, geofencing tools and operational coordination applications across web and mobile environments.
- **Stack:** React, Angular, Next.js, TypeScript, Node.js, Firebase, Express, NestJS, Sequelize, GraphQL(Apollo Client – Graph Codegen), Cypress, Tailwind CSS, Formik, React-Cookie, .NET.

**Freelance / International Projects** **La Habana, Cuba**  
Full Stack Developer *January 2018 - December 2020*

- Worked on international web and mobile platforms across e-commerce, telecommunications, marketplaces and business operations, contributing to frontend architecture, backend services, real-time communication systems and responsive user experiences.
- **Stack:** React, Next.js, Angular, Node.js, Express, MongoDB, SQL Server, C#, GraphQL, Ionic, SignalR.

**Tecnomatica**  
Full Stack Developer

- Contributed to enterprise ERP systems including accounting, purchasing and asset management modules, working on backend development, secure data processing and database-driven applications.
- **Stack:** C#, .NET, Genexus, Angular, SQL Server.

**University of Holguin**  
Lead Full Stack Developer

- Developed administrative and healthcare web applications while also teaching programming and software engineering fundamentals at the university level.
- **Stack:** [ASP.NET](#) MVC, C#, Oracle DB, jQuery, SQL.

## EDUCATION

Bachelor's Degree in Computer Science — University of Oriente, Cuba, September 2009 - July 2014