

Natalia Cuadrado Hidalgo

AI Engineer & Full Stack Developer

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Lanzarote, Canary Islands, Spain

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LinkedIn

Open to remote, hybrid or on-site

PROFESSIONAL SUMMARY

AI Engineer and Full Stack Developer with hands-on experience building production-grade AI solutions and large-scale web applications. Currently completing two Specialisations in AI & Big Data and Python Development while working as an AI Development Intern, designing RAG architectures and LLM-powered systems for real clients. Proven leadership as Project Coordinator for a government-backed emergency services mobile app, and sole developer of a 167,000-line enterprise SaaS platform. Combines deep technical expertise across the AI/ML and full stack spectrum with strong project management and client-facing consulting skills. Fluent in English (C1 Cambridge, C2 Anglia Speaking) and Spanish (native).

TECHNICAL SKILLS

AI / ML	LangChain, RAG, ChromaDB, pgvector, LLM Integration (OpenAI, Anthropic, Groq, Google), HuggingFace, NLP, CNN/DNN, Computer Vision, Generative AI	Languages	Python, TypeScript, JavaScript, C#, Java, SQL
Frontend	Next.js 15, React 19, React Native/Expo, Vue 3, Vuetify, Tailwind CSS, Framer Motion	Backend	FastAPI, Node.js, Next.js API Routes, Prisma ORM
Databases	PostgreSQL, MySQL, Firebase/Firestore, Redis, NoSQL	Data	Pandas, NumPy, Apache Spark, Hadoop
DevOps	Git/GitHub, Docker, Vercel, Cloudflare WAF, Sentry, CI/CD	Other	Stripe/Connect, NextAuth v5, OAuth, 2FA, Pusher, BullMQ, PWA, i18n, Agile/Scrum

PROFESSIONAL EXPERIENCE

AI Development Intern

2025 – Present

Utilia AI – AI Consulting Firm for SMEs, Canary Islands, Spain

- Design and implement AI solutions including LLM integrations and RAG systems for business clients using OpenAI, Anthropic, and Google AI providers
- Contribute to product development on SaaS platforms (AlignIA scheduling platform, Lumin Ecosystem)
- Provide AI consulting to SMEs, translating business requirements into actionable AI strategies

Web Technical Consultant

May – Jul 2025

Brio Marketing Estudio, Spain

- Optimised web platform performance and scalability for marketing clients
- Translated business requirements into technical solutions; integrated third-party APIs
- Maintained and improved existing platforms, ensuring reliability and uptime

Junior Frontend Developer Intern

Jan – Mar 2025

Marketec360, Spain

- Built responsive frontend interfaces using TypeScript and modern component-based frameworks
- Integrated frontend with backend services using Prisma ORM and MySQL data layers
- Contributed to type-safe development workflows across the full application stack

KEY PROJECTS

Harmony – Enterprise Employee Wellbeing Platform

Founder & Sole Developer

Full-scale SaaS platform (~167,000 lines of code) that detects employee burnout using AI (Groq/Mixtral LLM + Maslach Burnout Inventory model) with a psychologist marketplace, real-time messaging, and comprehensive analytics.

- Built end-to-end with Next.js 15, React 19, TypeScript, PostgreSQL (Neon), Prisma ORM (70+ models), Stripe Connect payments, and LangChain RAG knowledge base
- Implemented multi-role dashboards (Employee, Admin, Psychologist, Super Admin), 2FA authentication, GDPR compliance, rate limiting, and threat detection
- Integrated Pusher real-time messaging, BullMQ job queues, Redis caching, Cloudflare WAF, Sentry monitoring, and PWA support with i18n (EN/ES)

ACESLAN Emergency Services App

Project Coordinator & Supervisor

Official mobile app for the Consortium of Security and Emergencies of Lanzarote (government partnership with Cabildo de Lanzarote).

- Coordinated a team of 3–4 developers: managed GitHub repositories, reviewed PRs, led sprint planning, and defined AI feature proposals
- Native Kotlin Multiplatform mobile app with incident reporting, emergency information management, and Google Maps integration

Socaiy AI Agent – Final Thesis

Lead Developer & Researcher (Ongoing)

RAG-based conversational agent for business analysis and AI opportunity assessment, built with FastAPI, LangChain, ChromaDB, and Vue 3. Features a proactive 6-phase B2B dialogue system validated through field research with real companies in tourism, digital marketing, and logistics across Spain.

EDUCATION

Specialisation in Artificial Intelligence & Big Data

2025 – 2026

CIFP Zonzamas, Lanzarote, Spain (In-person)

AI Models, Machine Learning Systems, Big Data Systems, Statistical & Mathematical Analysis

Specialisation in Python Application Development

2025 – 2026

CIFPD de La Rioja, Spain (Online)

University Certificate – Innovation, Sustainability & Digital Transformation

2025 – 2026

Diginnova (Group 09), Spain

Higher Degree in Web Application Development (CFGS DAW)

2023 – 2025

ILERNA FP, Spain

Software Architecture, OOP, SQL, C#, Java

LANGUAGES

Spanish – Native **English** – C1 Cambridge / C2 Anglia Speaking

CERTIFICATIONS

- C2 Distinction Speaking – Anglia Examinations
- C1 English Certificate – Cambridge International Education
- Elements of AI – University of Helsinki

REFERENCES

Manuel López – Supervisor

Utilia AI – AI Consulting Firm

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Fernando Pablos Espeso – ACESLAN Project

Consortio de Seguridad y Emergencias de Lanzarote

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Federico Marques Martín – Lecturer

CIFP Zonzamas – AI & Big Data

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