

CRISTIAN FERNANDEZ

Senior Fullstack Developer & Tech Lead

Madrid, Spain · hello@cferndp.com · +34 648 407 838
cferndp.com · linkedin.com/in/cferndp · github.com/CFerndp

PROFESSIONAL SUMMARY

Fullstack Developer and Tech Lead with 14+ years of experience building scalable web and mobile applications. Proven track record in frontend architecture (**React**, **TypeScript**, **Next.js**), backend development (**Django**, **Node.js**, **.NET**), and technical leadership including team mentoring, **Agile** process implementation, and cross-functional collaboration. Experienced in evaluating and implementing **AI-assisted development** workflows and tooling. Passionate about code quality, performance optimization, and delivering high-impact solutions across the full stack.

TECHNICAL SKILLS

Frontend: React, React Native, TypeScript, JavaScript, Next.js, HTML5, CSS3, Redux, Vite

Backend: Python (Django, FastAPI), Node.js (Express, NestJS), .NET Core, PHP (Laravel), GraphQL

DevOps & Tools: Coolify, Docker, Kafka, ELK Stack, GitLab CI/CD, Jenkins, Puppeteer, SonarQube

Databases & Architecture: PostgreSQL, MySQL, REST APIs, Microservices, BFF Pattern, TDD

AI & ML: Machine Learning, Local Model Deployment, AI-Assisted Development, AI Agent Workflows, Context Engineering

Leadership: Team Management, Scrum, Mentoring, Technical Strategy, Budget Planning, Career Path Design

PROFESSIONAL EXPERIENCE

Freelance Software Developer

Self-Employed

2019 – Present

- Designed and implemented scalable solutions using **Kafka**, ELK Stack, and Puppeteer for data streaming, logging, and automation.
- Developed responsive, high-performance web applications with **React** and **TypeScript**.
- Built cross-platform hybrid applications with Ionic, ensuring seamless user experience on iOS and Android.
- Developed backend systems and database architectures using Express, **NestJS**, **FastAPI**, **Django**, and Laravel.
- Deployed and experimented with **local AI models** (OpenClaw, PicoClaw) for research and development automation.
- Leveraged **AI agent platforms** for technical research, documentation generation, and workflow optimization.

Associate Professor

Comillas University (ICAI)

2025 – Present

- Lecturer for the course "Development of Applications and Services," covering fullstack web development.
- Teaching web technologies (HTML, CSS, **JavaScript**, **React**), backend development (**Django REST**), **Scrum**, and **Git**.

Senior Fullstack Developer

Alira Health

2024 – Present

- Led development of mobile applications with **React Native**, optimizing for performance and user experience.
- Built scalable web applications with **React** (Vite) and **Next.js**, applying modern frontend best practices.
- Implemented backend solutions in **Django** with a BFF approach using Django Ninja.
- Established a **Test-Driven Development (TDD)** workflow, reducing production bugs and improving code reliability.

- Served as tech lead for frontend: translated complex business requirements into efficient, maintainable solutions through analysis and team collaboration.
- Evaluated and implemented **AI-assisted development workflows**, including local models, terminal-based tools, cloud providers, and IDE integrations, improving developer productivity.
- Configured **GitHub context files** for multiple projects to optimize AI code assistance and maintain consistent coding standards.
- Led internal **AI transformation initiatives**, conducting workshops and training sessions to upskill team members on AI tooling and best practices.

Senior Frontend Developer

AltoVita

2023 – 2024

- Developed B2B responsive web applications with **React** and **TypeScript**, solving travel booking flows for enterprise clients.
- Implemented state management with **Redux** Toolkit and comprehensive testing (**Cypress** E2E, **Jest**/RTL unit tests).
- Managed **CI/CD** pipelines with GitLab and **Jenkins**.

CTO

Ekonoke

2022 – 2023

- Restructured the technology department, resolving trust issues between engineering and product teams through tailored **Agile** methodologies.
- Defined IT strategy, department budget, and career paths for team members.
- Led team organization through **Scrum** and mentored junior developers.
- Programmed and troubleshoot IoT hardware (ESP8266) for custom agricultural applications.

Lead Mobile Developer

TaxDown

2022

- Led mobile development for a tax management app serving thousands of users in Spain.
- Delivered cross-platform solutions with **React Native** for iOS and Android.

Senior Frontend Developer

Axel Springer Spain

2019 – 2020

- Built web applications with **React** (Hooks, Context API) and **TypeScript**; used **Next.js** for SEO optimization.
- Managed **Docker** containers and GitLab CI pipelines.

Senior Hybrid Mobile Developer

Verisure Securitas Direct

2018 – 2019

- Developed web applications with **React**, **Redux**, and **GraphQL**.
- Built native Android wrapper modules to support web apps, following a Cordova-like architecture.

Senior Fullstack Developer & Team Leader

Delonia Software

2015 – 2018

- Led small teams as Team Leader, acting as client liaison and bridging business and technical requirements.
- Built web applications with **React**, Angular, HTML5, CSS3, and **.NET**; hybrid mobile apps with Xamarin and Ionic.
- Implemented **TDD** practices (Karma, Jasmine, **Jest**) and code quality monitoring with **SonarQube**.
- Developed IoT access control systems with **.NET** using biometric devices (finger vein recognition).
- Designed and implemented **microservice** architectures with **.NET Core**.

Junior Fullstack Developer

Partec Solutions

2012 – 2015

- Developed low-level firmware in C for Atmel microprocessors and implemented Manchester encoding for RFID.
- Built real-time Android applications for IoT device control and **REST APIs** in Java.
- Administered Linux systems and networks (NAT, SFTP, Samba, cron jobs).

EDUCATION

Master's Degree – Innovation and Research in ICT (I2-TIC)

UAM, Madrid

2016 – 2018

- Specialization in **Machine Learning** and neurocomputing techniques (EEG, EOG).
- Thesis: Virtual Reality application for Brain-Computer Interfaces based on EOG.

Bachelor's Degree – Computer Science

2011 – 2016

UAM, Madrid

- Thesis: Virtual Reality for people with motion disabilities.

LANGUAGES

Spanish – Native

English – Full Professional Proficiency