Antonio Martínez Fernández

Full Stack Developer | Python, Angular, Node.js & React | Software Engineer

✉ antoniomartinezfernandez17@gmail.com 📞 (34) 627-129-659 🎨 Portfolio 🐙 Github in Linkedin

PROFESSIONAL EXPERIENCE

Frontend developer (Angular & RxJS) | Metrica Sports - June 2025 - Present | Full-time

As a Frontend Developer, I design and implement high-performance, reactive interfaces for the Metrica Nexus product and cross-platform applications, taking end-to-end ownership of features in a fast-paced startup environment.

- **Developed and maintained frontend features** with Angular (v14) for the Metrica Nexus product.
- **Took ownership of end-to-end features**, collaborating with a diverse, international team in a fast-paced startup environment.
- Built **reactive and high-performance** interfaces using RxJS. Partnered with designers to improve **UX/UI** experiences.
- Worked on **cross-platform applications** with Electron and Ionic.

Full-Stack Developer (Python & Angular & FastAPI) | Bionet - October 2023 - June 2025 | Full time

Participate in all stages of software development for ROSITA2, **an embedded system for bioreactors**, developing both frontend and backend solutions while ensuring seamless integration with hardware.

- Development of **Rest APIs and microservices** using Python and FastAPI. Usage of Redis queues and events for fast and efficient microservices communication.
- Design and development of a touchscreen and desktop **application interface for real-time management** of bioreactors with **Angular** v(12-19), Bootrstrap and Neutralino. Successfully migrated all systems from Angular 12 to 19.
- **Software lead** for bSmart devices such as CT1 and bBreath4 obtaining **integrated backend-frontend solutions** and working closely with electronics teams for integrating low level hardware software. Led meetings for retrospective analysis and future planning based on requirements and user feedback.
- Contribute to **architecture planning** and decision-making for **system design**.
- Worked extensively with technologies such as **OPC UA** and **Asyncio**.
- Backend **unit** and i**ntegration testing** with pytest and frontend with Karma and Jasmine. Hands-on physical prototype testing.

Lead Developer (Python & React & FastAPI & AWS)| Spotify Electron - May 2023 - Present | Freelance

As the owner and Lead Developer of an **open-source cross-platform music streaming application**, I have been at the forefront of replicating and enhancing Spotify's functionalities while incorporating unique user-requested features such as the ability to upload personal music.

- **Led a global open-source team of 25+ contributors** using **Agile** methodologies, managing Git/GitHub workflows, PRs, and issue tracking.
- Developed **REST APIs** using Python, FastAPI, and MongoDB, including JWT-based authentication.
- Designed a **scalable music streaming architecture** leveraging AWS (S3, CloudFront, Lambda) for storage, CDN, and serverless processing.
- Built a **cross-platform desktop application** with React, TypeScript, and Electron, featuring a Spotify-inspired UI.
- Implemented **Dockerized** environments, CI/CD pipelines with **GitHub Actions**, and **automated testing** with Jest, React Testing Library, and pytest.

Frontend Developer | Mayor Óptica - January 2023 - June 2023 | Freelance

- Led end-to-end website development **from concept to production deployment.**
- Designed the **UX/UI** to create a professional, user-centered digital experience aligned with brand identity.
- Built a responsive, performance-optimized frontend ensuring seamless cross-device compatibility.
- Managed **deployment, optimization, and launch**, delivering a fully operational production-ready website.

Full-Stack Developer (PHP & JavaScript)| ByProx - January 2022 - June 2022 | Internship

Developed the backend and frontend for a travel application structured around points of interest (POIs).

- Developed the organizational structure and navigation through countries, regions, cities, and points of interest using PHP.
- Data persistence using MySQL.
- Organized content graphically using HTML, CSS and JavaScript.

SKILLS

- **Python**
- **Typescript**
- **React**
- **Angular**
- **FastAPI**
- **Node.js**

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EDUCATION

Bachelor Degree's on Computer Science
- Software Engineering Specialization (2019-2023) **7.5/10 (3.3/4 GPA)**
- **Honors** in Software Architecture

MongoDB Python Developer Path

EF SET English Certificate 88/100 (C2 Proficient)

LANGUAGES

- **English:** Professional Working Proficiency (C1)
- **Spanish:** Native/Bilingual