

# Antonio Martínez Fernández

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

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## PROFESSIONAL EXPERIENCE

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### Frontend developer (Angular & RxJS)

Metrica Sports - June 2025 - Present

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 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.
- Worked on cross-platform applications with Electron and Ionic.

### Full-Stack Developer (Python & Angular & FastAPI)

Bionet - October 2023 - June 2025

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, Bootstrap and Neutralino.
- 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 integration testing with pytest and frontend with Karma and Jasmine. Hands-on physical prototype testing.

### Lead Developer and Owner

Spotify Electron - May 2023 - Present

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.

## EDUCATION

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### Bachelor Degree's on Computer Science

Software Engineering Specialization  
(2019-2023) **7.5/10 (3.3 GPA)**

### MongoDB Python Developer Path

EF SET English Certificate 88/100 (C2 Proficient)

## SKILLS

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

## LANGUAGES

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