

Pedro López Mareque

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Education

University of Oviedo, Bachelor 's Degree in Telecommunication Technologies and Services Engineering. Sept 2010 – May 2015

- GPA: 7.7/10
- **Coursework:** Electronics, Automation, Engineering, Computer Science, Software Development.

Experience

Senior Software Engineer, Clarity AI March 2022 – Now (3 years)

- Mentoring the rest of the team about topics like testing and code good practices.
- I lead in the development of a Self-Service platform for the Engineering organization.
- I focus on enhancing the Developer Experience through tools like Terraform, Crossplane, ArgoCD, ArgoWorkflows, and custom platform libraries.
- This platform not only simplifies the workflows for other teams but also strengthens their tools, processes, principles, and practices, enabling stream-aligned teams to leverage these resources seamlessly.
- I also contribute to boosting observability, QA, and Build/Release capabilities, creating a robust environments that supports sustainable growth.
- My approach incorporates rigorous testing, Extreme Programming, and Lean practices with a strong foundation in TDD, Hexagonal Architecture, and Domain-Driven Development to ensure scalability and high-quality outcomes.

Software Engineer, Empathy.co 2019 – 2022 (3 years)

- I work with major international clients to enhance and scale their search experiences, leveraging a diverse technology stack that includes Java, TypeScript, Vue, and Go.
- By tailoring solutions to their unique needs, I drive improvements in functionality, performance, and usability, helping these organizations deliver more relevant and efficient search results to their users.
- My work supports client growth by combining technical expertise with a keen understanding of user experience and search optimization, resulting in impactful solutions that strengthen their digital presence.
- I have worked directly with clients to understand their specific needs, translating complex requirements into practical, effective solutions.
- My role involved a full-cycle approach: listening actively to client needs, designing robust implementations, and developing solutions that meet both functional and technical specifications. This hands-on experience has refined my ability to bridge client expectations with technical execution

Software Engineer, Sngular 2018 – 2019 (1 year)

- I led the design and implementation of a web application from scratch for an international client, taking on the role of principal backend developer.
- Using a robust approach grounded in Domain-Driven Design (DDD), N-Layer architecture, and Test-Driven Development (TDD), I ensured a scalable and maintainable codebase that aligns with the client's evolving needs.
- By applying Agile methodologies, particularly SCRUM, I facilitated iterative progress, regular feedback, and continuous delivery, establishing a collaborative development process that supports high-quality outcomes and responsiveness to client requirements.
- I engaged closely with clients to accurately capture and understand their requirements, transforming these insights into well-structured implementation plans and delivering tailored solutions.
- I handled the full development cycle—from initial requirements gathering to solution design and execution—ensuring that each project aligned with both client expectations and technical standards.

Technical Support and Developer at HSM (Hot Strip Mill), ArcelorMittal - Spain 2007 – 2018 (12 years)

- Over a 12-year tenure, I progressed from an entry-level role to an engineering position, steadily advancing through increasing levels of responsibility.
- My growth was fueled by hands-on experience, continuous learning, and a commitment to excellence, allowing me to develop a deep understanding of the company's operations and contribute meaningfully to key projects.
- This journey equipped me with a solid technical foundation and the skills necessary to perform effectively as an engineer.
- I design, create, and code a variety of solutions, including SCADA and HMI systems, tailored to meet the unique operational needs of clients.
- My responsibilities include meticulous planning and scheduling of daily tasks to ensure smooth workflows and timely progress on deliverables.
- Additionally, I maintain and enhance existing applications, continuously improving their performance and functionality to support evolving requirements and ensure long-term reliability.

Technologies

Methodologies: Test Driven Development, Trunk Based Development, Continuous Integration / Continuous Deployment, Lean Development, Baby Steps, SCRUM.

Languages: Python, Java, Typescript, JavaScript, C# and SQL.

Technologies: Python, Java, Spring, Vue, .NET, Microsoft SQL Server.

Books

Learn Python using tests

Learn Python with TDD

- Book to learn the basics of the Python language using Test Driven Development.

Open Source Contributions

A Rails-based Frontend to Active Job adapters

Rails Mission Control Jobs

The OS for your personal finances

Maybe

Official Python client

Kubernetes

Standard Library

Go

Modern HTTP reverse proxy and Load Balancer

Traefik

Deliver Go binaries as fast and easily as possible.

GoReleaser

Projects

Guess the country

countries.pmareke.com

- Developed an application to play the game of guessing the flag of a country.

- Tools Used: Python using FastAPI and Vue.

Guess the capital

capitals.pmareke.com

- Developed an application to play the game of guessing the capital of a country.

- Tools Used: Python using FastAPI and Vue.

Boilerplate to be used as a FastAPI starter point.

FastAPI Boilerplate

- This repository includes a basic setup with reusable components, pre-configured settings, and example code to help developers quickly deploy FastAPI applications with best practices.

Boilerplate to be used as a Python starter point.

Python Boilerplate

- This repository includes a basic setup with reusable components, pre-configured settings, and example code to help developers quickly deploy Python applications with best practices.

Boilerplate to be used as a Streamlit starter point.

Streamlit Boilerplate

- This repository includes a basic setup with reusable components, pre-configured settings, and example code to help developers quickly deploy Streamlit applications with best practices.