# 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.