

# Maria Lobillo Santos

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***Full Stack Developer with 6+ years of experience in JavaScript, TypeScript, React, Node.js, and PHP. Specialized in clean architecture, scalable backend systems, and interactive front-end applications. Experienced with Docker, AWS, and modern development tools.***

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## Professional Experience

### Full Stack Developer

Rem Experience • Remote, Spain

January 2024 – June 2024

- **Developed an AI-powered interactive chatbot using the OpenAI API**, designed to enhance the tourism experience in Barcelona by providing personalized, guided recommendations to visitors. Integrated seamlessly with the frontend using **React.js**.
- **Built a 3D configurator with Three.js**, allowing users to interact with and visualize complex systems from all angles. Focused on optimizing performance and user experience, making it intuitive and accessible for all users.
- **Created a chatbot for recycling guidance**, utilizing image recognition and AI to recommend the best places to recycle in Barcelona based on user-uploaded images. This feature aimed to increase recycling awareness by providing real-time, location-based solutions to users.
- **Implemented authentication and authorization** using Auth0, ensuring secure access to the platform while streamlining user management.
- **Developed a dynamic dashboard and budget generation system**, allowing users to configure options and receive personalized pricing estimates, optimizing decision-making for clients.

***Technologies:** JavaScript, React.js, Three.js, PHP, Laravel, MySQL, OpenAI API, Auth0.*

### Backend Developer

Immense (formerly Videoslots) • Remote

December 2021 – December 2022

- Resolved a **critical security vulnerability** that allowed users to exploit the system, preventing significant **financial losses** and safeguarding platform integrity.
- Led the effort to optimize SQL queries and **contributed to a 40% reduction in query times**, which resulted in faster performance for users.

- Developed a **fail-safe tournament registration mechanism** using **Redis** and **RabbitMQ**, ensuring users could register even during server outages.
- **Implemented frontend caching**, improving performance and reducing load times, while enhancing the overall user experience by ensuring faster content delivery across the platform.
- Actively collaborated in **pair programming** and cross-team debugging, including fixing test failures in the payment system.

**Technologies:** PHP, Laravel, JavaScript, Vue.js, MariaDB, Elasticsearch, Redis, RabbitMQ, Nginx, WebSockets, GraphQL.

## **Full Stack Developer**

**Freelance • Remote**

*June 2012 – April 2018*

- Developed **custom WordPress themes and plugins**, enhancing user experience and website functionality for diverse clients.
- Built **server-side applications** using **Laravel** and **CakePHP**, delivering tailored solutions that balanced usability, performance, and scalability.
- Optimized database queries and backend processes in **MySQL**, improving system efficiency and reducing load times.
- Created interactive and dynamic front-end features using **JavaScript**, ensuring seamless user experiences across different platforms.
- Managed end-to-end development, from **requirement gathering** and **architecture design** to **deployment and maintenance**, adapting to each client's needs.

**Technologies:** JavaScript, PHP, Laravel, CakePHP, WordPress, MySQL.

## **Software Engineering Intern**

**Nutrition Center Huelva • Huelva, Spain**

*September – October 2012*

- Implemented a **geolocation feature** to enhance user experience in the company's online services.
- Developed and optimized web functionalities using **PHP** and **CakePHP**, improving site interactivity.
- Designed responsive UI components with **Bootstrap** and **JavaScript** for better accessibility.

**Technologies:** PHP, CakePHP, Bootstrap, JavaScript

## **Software Engineering Intern**

**Tegnos Hitech Huelva • Huelva, Spain**  
**December 2010 – June 2011**

- Developed **desktop applications** using **.NET**, focusing on **usability enhancements** and **data management**.
- Improved **database performance** and data consistency across **SQL Server** and **MySQL**.
- Assisted in software testing and debugging, ensuring application stability and reliability.

**Technologies:** Visual Basic .NET, PHP, SQL Server, MySQL

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## ***Selected Projects***

### ***Fixer Finder***

***Platform for sharing tasks and finding professionals, built using clean architecture principles***

- Designed and implemented the **API** following **clean architecture** principles, ensuring maintainability and scalability.
- Developed core features like **task sharing**, **professional matching**, and **user authentication** using **OAuth-2.0**.
- Wrote comprehensive **unit tests** with **Jest** and **Supertest**, ensuring high code quality and reliable functionality.
- Integrated a **PostgreSQL** database for efficient data storage and management, optimizing queries for performance.
- Built a **React.js** frontend to provide a smooth, interactive user experience.

**Technologies:** TypeScript, Node.js, Express.js, React.js, PostgreSQL, Jest, Supertest, OAuth-2.0

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## **Education**

**IES La Marisma • Huelva, Spain**  
**2007 – 2009**  
Associate Degree in Computer Science.

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## **Skills and Technologies**

- **Languages:** JavaScript, TypeScript, PHP, Python, SQL
  - **Frontend Frameworks:** React.js, Next.js, Vuejs
  - **Backend Frameworks:** Node.js, Express.js, Laravel
  - **Databases:** MySQL, PostgreSQL, MongoDB, Redis
  - **Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, Linux
  - **API & Authentication:** RESTful APIs, GraphQL, OAuth-2.0
  - **Development Practices:** Agile, Scrum, Unit Testing
  - **Version Control:** Git, GitLab
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## Languages

**English:** Professional Proficiency

**Spanish:** Native Proficiency