

MARKEL RAMIRO VAQUERO

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ABOUT MYSELF

Trilingual individual with a strong drive and self-reliance. Specializing in Artificial Intelligence and Data Analytics, I approach challenges with a strategic, analytical, and innovative mindset. Characterized by a determined and self-motivated nature, coupled with a keen aptitude for independent learning and problem-solving.

WORK EXPERIENCE

Devol

Head of AI Department

📅 July 2024 – Present

📍 Bilbao, Spain

- **Leadership & Mentoring:** Supervise and guide a multidisciplinary AI team, defining clear objectives and coaching team members for optimal performance.
- **Hands-on Development:** Actively code and design algorithms for AI products, ensuring clean architecture and maintainable code in Python.
- **Agile Methodologies:** Apply Scrum-based workflows (daily stand-ups, sprint planning, retrospectives) to foster a culture of collaboration and continuous improvement.
- **Delegation & Ownership:** Distribute tasks strategically, empowering team members to take full responsibility for their modules while maintaining project momentum.
- **Proactive Innovation:** Identify market opportunities and spearhead R&D initiatives to deliver cutting-edge AI solutions that create measurable business impact.
- **Core AI Projects:**
 - **DocMind:** LLM-based application for automated document field extraction.
 - **SQL AI (RAG-Based):** Streamlines natural language queries to SQL by referencing DDL docs and pre-trained SQL query pairs.
- **Results & Impact:** Increased reliability and scalability through improved architecture, agile processes, and targeted AI optimizations.

Tech Stack:

Python, FastAPI, Flask, SQL (PostgreSQL, MySQL), Docker, GitHub Actions, Azure, LangChain, Pinecone, OpenAi, Anthropic.

Freelance – Belasai.es

Full-Stack Developer

📅 October 2024 – Present

📍 Remote

Collaborated with a client to develop **Belasai**, an innovative platform aimed at promoting employee well-being by connecting workers with specialized professionals.

- Designed and implemented a robust advisory system where employees from subscribing companies can submit queries, which are processed and addressed by Belasai's expert team.
- Led the entire software development lifecycle, including requirements analysis, architecture design, implementation, and deployment.
- Focused on building a user-friendly and secure platform to streamline interactions between employees and professionals.
- Contributed to the platform's scalability and adaptability, ensuring seamless onboarding for companies of varying sizes.

Key Technologies (current): Python, Flask, PostgreSQL, AWS, REST APIs

Wippass – Event Management

Founder and CEO

📅 March 2023 – July 2024

📍 Online

Founded and led **Wippass**, an online ticket sales platform with over 5K active users, designed to streamline event ticketing and management.

- Successfully processed over **€25,000 in ticket sales transactions**, demonstrating the platform's reliability and user trust.
- Ensured high availability, security, and scalability through container-based infrastructure and cloud services.
- Oversaw the end-to-end development and deployment of the platform, including feature prioritization, customer engagement, and system optimization.
- Collaborated with event organizers to deliver tailored solutions for ticketing and analytics.

Key Technologies: Python, MySQL, Kubernetes, AWS, GitHub

Nomada Omnimotion

Virtual Reality Project Development Assistant

📅 September 2023 – March 2024

📍 Vitoria-Gasteiz (Remote)

Applied AI and programming techniques to create immersive VR experiences, incorporating omnidirectional treadmills and sensor integration. **Key Technologies:** Python, VR, Sensor Fusion

EDUCATION

Bachelor in Artificial Intelligence

University of the Basque Country (UPV/EHU)

📅 September 2020 – May 2024

📍 San Sebastian, Spain

Deep knowledge of AI fundamentals, including Machine Learning, Data Analytics, and Robotics. Proficient in Python, Jupyter, Matlab, R, \LaTeX , Linux.

Final Thesis (TFG)

University of the Basque Country (UPV/EHU)

📅 December 2023 – May 2024

📍 San Sebastian, Spain

Focused on optimizing the Wippass event management system by transitioning to a Kubernetes-based environment. Includes AI-driven vulnerability detection to enhance security and reliability. Integration of Prometheus for monitoring and real-time security analysis using AI. **Key Tools:** Google Cloud, Kubernetes, Prometheus, Grafana