MARKEL RAMIRO VAQUERO

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ABOUT MYSELF

Trilingual professional specialized in **Artificial Intelligence**, **MLOps**, and **Data Analytics**. I tackle challenges with a strategic, analytical, and innovation-driven mindset. Highly self-motivated and adaptable, with proven experience delivering AI solutions from ideation to production. Seeking new opportunities to collaborate, learn, and drive value through cutting-edge AI initiatives.

WORK EXPERIENCE

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AI & MLOps Engineer (Leading a small AI team)

📅 July 2024 – Present   📍 Bilbao, Spain

- **Technical Leadership:** Provide direction and mentorship to a junior team member in AI-related projects, ensuring best practices in MLOps and software engineering.
- **End-to-End Development:** Hands-on coding of AI solutions (Python) from data preprocessing to model deployment, applying Docker and CI/CD pipelines.
- **Agile Methodologies:** Apply Scrum-based workflows (daily stand-ups, sprint planning, retrospectives) to optimize collaboration and development speed.
- **Project Ownership:** Coordinate tasks, track progress, and maintain overall architecture consistency to meet project deadlines and business goals.
- **Key AI Initiatives:**
  - **DocMind:** LLM-based application for automatic document field extraction (OCR + NLP).
  - **SQL AI (RAG-Based):** Natural language to SQL queries using context from DDL docs and pre-trained query pairs.
- **Impact:** Improved model reliability and scalability through robust MLOps strategies, including automated testing, containerization, and cloud deployment.

Tech Stack: Python, Flask, Docker, GitHub Actions, Azure, LangChain, Pinecone, PyTorch, Hugging Face, PostgreSQL

Freelance Project for Belasai.es

AI & Full-Stack Developer (Short-Term Contract)

📅 October 2024 – Present   📍 Remote

Developed an innovative platform (**Belasai**) connecting employees with specialized professionals for personalized well-being advice.

- 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

Solid grounding in core AI concepts (Machine Learning, Data Analytics, Robotics). Proficiency in Python, Jupyter, Keras, Hugging Face, Power BI and Linux environments.

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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

SELECTED SKILLS

- **Soft Skills:** Problem-Solving, Deep Technical Engagement, Analytical Thinking, High Work Ethic, Adaptability
- **Technical Skills:** Python, SQL, Docker, AWS, CI/CD, PyTorch, MLOps