

MARCOS MUÑOZ GONZÁLEZ

+34 665 81 71 84

 /marcosmunozgonzalez

 /marcosmg95

 marcosmunozgonzalez95@gmail.com

 <https://www.marcosdomain.com>

EDUCATION

Master in Computer Vision

09/2022 - 09/2023

Autonomous University of Barcelona • Cerdanyola, Barcelona

Bachelor's Degree in Computer Engineering

09/2017 - 09/2021

Autonomous University of Barcelona • Cerdanyola, Barcelona

SKILLS

Programming

Python, MATLAB, PHP, JavaScript, HTML, CSS, SQL and Java

Machine Learning

PyTorch, TensorFlow, Numpy, Pandas, Scikit-Learn, Matplotlib

Languages

Native in Spanish and Catalan; English C1 Advanced (IELTS Academic 7.5); German B1 EOI

EXPERIENCE

Senior AI Software Engineer

12/2024 - Currently

Diputació de Barcelona • Barcelona, Barcelona

- Launched a multi-agent system supporting hundreds of users navigating governmental financing in Catalonia
 - Eliminated system errors and significantly increased chatbot processing speed
 - Implemented structured feedback loops to monitor and improve user experience
 - Combined the chatbot architecture with a holographic avatar interface for enhanced user engagement in the Smart Cities Barcelona congress
- Served as a DevOps engineer, securing both Azure and on-premises environments while establishing DevOps best practices. Successfully led and managed multiple concurrent projects
- Established LLMOps best practices and introduced the Langfuse framework, significantly improving monitoring, evaluation, debugging, and optimization workflows for large language models and their applications
- Developed several NLP applications using Python and Azure, ensuring scalable cloud deployment

Professor of Master's in Artificial Intelligence and Big Data

09/2025 - 07/2026

Stucom • Barcelona, Barcelona

- Lectured on Artificial Intelligence topics, including machine learning and deep learning
- Gave students best practices and practical tips for working in real life projects

Senior AI Software Engineer

09/2023 - 12/2024

International Airlines Group (IAG) • Barcelona, Barcelona

- Led a project to extract key information from thousands of internal documents using Large Language Models (LLMs) and AWS services like CloudWatch, EC2, Load Balancers, AutoScaling Groups and RDS
- Contributed to a web platform that allowed users to interact with internal documents through Natural Language Processing (NLP) queries. Optimized document indexation into the data store using asynchronous Python, significantly reducing computational time. Engaged in prompt engineering and utilized Azure services for the project
- Developed and maintained artificial intelligence-oriented web services using Python and JavaScript frameworks, as well as Azure and AWS

Research Engineer

06/2021 - 09/2022

Computer Vision Center (NeuroBiT) • Cerdanyola, Barcelona

- Development and implementation of State Of The Art (SOTA) neural networks, complemented by a variety of advanced machine learning and computer vision algorithms
- Two accepted posters presented at the European Conference on Visual Perception (ECVP) in 2022 and 2023

Software Engineer

09/2018 - 02/2021

Abnorm Media GmbH • Barcelona, Barcelona

- Undertaking projects leveraging diverse frameworks and APIs, such as Ghostscript and ImageMagick, with a strong emphasis on web development. Worked with Linux, MySQL, functional PHP and JavaScript. Versioning with Apache Subversion (SVN)
- Developed cross-platform mobile applications for Android and iOS using Apache Cordova
- Developed a Java application to interact with Near Field Communication (NFC) technologies

Software Developer

06/2017 - 01/2018

Mozakrea • Sabadell, Barcelona

- Worked on e-commerce applications with CSS, PHP and JavaScript

Software Developer

05/2016 - 09/2016

RadarPrice • Barcelona, Barcelona

- Worked on scraping applications with frameworks such as PhantomJS and Selenium

PUBLICATIONS

I contributed to the following research projects:

- **European Conference on Visual Perception 2023**

Low aesthetic value ("ugliness") without semantics
C Alejandro Parraga, **M Munoz Gonzalez**

- **European Conference on Visual Perception 2022**

Experimental aesthetics without semantics
C Alejandro Parraga, **M Munoz Gonzalez**, X Otazu, O Penacchio

CERTIFICATIONS

Microsoft Certified: Azure Data Scientist Associate

06/2024 - 06/2025

Credential ID: 9F4AD597C984988A

AWARDS

2nd Prize Aina Hack

11/2024

Issued by the Generalitat de Catalunya · Nov. 2024

Participated in an artificial intelligence-focused hackathon organized by the Generalitat de Catalunya and the Barcelona Supercomputing Center, where our team developed a tool to generate personalized routes highlighting Catalonia's historical, cultural, and architectural heritage.