Miguel Abdón Sánchez-Herrero López

Software Engineer

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Profile

Software engineer specialized in generative artificial intelligence and backend, with experience in development of intelligent agents and scalable architectures. Proactive, creative and with excellent communication skills.

Professional Experience

AI Software Engineer, *Santander Digital Services*
07/2024 – present
Developed agent-based SDKs with LangChain and LangGraph to automate large-scale document workflows in cloud environments (AWS/Azure). Designed multi-agent systems using MCP and A2A protocols, which were presented to senior leadership due to their strategic impact. Also contributed to OCR systems and LLM integrations to optimize key internal processes.

IT Engineer, *KPMG España*
09/2023 – 07/2024
Development of backend systems focused on database architecture and data processing. I contributed in the production deployment and optimization of customer-facing applications.

Languages

- English: advanced level (C1 certificate)
- French: basic level (B1 certificate)
- Spanish: native

Academic Background

Arturo Soria School
2017 – 2019
Fundamentals of Debate and Real-Time Simulation Course. Represented Hungary at the UC3M European Parliament Conference.

U-tad, University Center for Technology and Digital Art
2019 – 2023
Software Engineer | Data Scientist

Technologies

- Python
- JavaScript
- Tensorflow
- Pytorch
- LangChain
- MCP
- A2A
- Multi-Agent Systems
- AWS
- Docker
- Kubernetes
- Linux