



Iván Alfredo Caamaño Castañeda

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Summary

I am a Telematics Engineer with experience in AI/ML, DevOps, Software, and Data Engineering, consistently staying up to date with emerging AI technologies. Proficient in Python and its main frameworks, I am a dedicated professional driven by the goal of turning technology into impactful results to our world.

Skills

- **Programming:** Python, SQL, JavaScript, Java, TypeScript, R, Scala, Golang, Solidity, Rust and Swift.
- **Data:** PyTorch, TensorFlow, Keras, Pandas, LangChain, MLFlow, Prompting, RAG and MCP.
- **Software:** AWS, Azure, Excel, Docker, Kubernetes, Git, Linux and Databricks.
- **Soft skills:** Leadership, Communication, Teamwork, Resolutiveness.
- **Interests:** AI/ML, Software, Data, Blockchain, E-commerce.
- **Languages:** Spanish (native), English (C2), French (B1).

Experience

Avvale

Madrid, Spain

AI & Data Analyst

March 2025 – Actual

- Designed and deployed an AI-powered document-generation agent in AWS, automating every process of production in 4 types of dynamic documents, reducing manual effort by 95% and improving consistency.
- Engineered and optimized prompting and RAG implementations for the development of a specialized chatbot in an Azure-based environment, decreasing information retrieval latency by 90%.
- Developed an AI-based solution for the segmentation and analysis of beef loin images using Deep Learning, from analysis to model evaluation, cutting workload and improving consistency in classification by 80%.

NFQ Advisory Services

Madrid, Spain

Software Associate Consultant

January 2025 – March 2025

- Part of the Risks team at BBVA in charge of the bank's Internal Model Method (IMM) development.
- Analyzed, designed, and implemented software solutions for 4 processes in the project using Python, Java and Unix, working closely with 2 cross teams to align technical solutions with business objectives.
- Integrated and automated the execution of IMM's batch processes, optimizing manual intervention and processing time through continuous feedback and iterative improvements.

Indra

Madrid, Spain

Defense and Security Systems Intern

September 2021 – July 2022

- Coordinated with a team of +10 people for the digitalization of AESA radars for the Eurofighter.
- Developed and optimized 2 ML models for radar data processing, implementing pattern detection and noise reduction algorithms, using frameworks such as TensorFlow and PyTorch, improving efficiency by 30%.
- Assisted in the integration of real-time data processing solutions, optimizing system performance by 20%.

Education

Universidad Politécnica de Madrid

Madrid, Spain

Master of Engineering in Network and Telematic Services

September 2023 – July 2024

Relevant coursework: AI/ML, Big Data, Cloud Computing, Blockchain, Cybersecurity and IoT.

Bachelor of Engineering in Telecommunications Technologies and Services

September 2019 – July 2023

Major in Telematics. ABET and EUR-ACE accredited. Relevant Coursework: Web and Software Engineering, Data Structures and Algorithms, Statistics, Mathematics, Network communications and Systems programming.