

Iván Alfredo Caamaño Castañeda

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ivanncaamano



ivannxbt

Summary

I am a Software Engineer with experience in AI/ML, DevOps 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, TypeScript, JavaScript, Java, Bash, Git.
- **AI/ML:** OpenAI, Claude, Gemini, LangChain, PyTorch, TensorFlow, MLFlow, Vector DBs.
- **Cloud and DevOps:** AWS, Azure, GCP, Docker, Kubernetes, Databricks, GitHub Actions.
- **Soft skills:** Leadership, Cross-functional collaboration, Technical communication, Problem-solving.
- **Languages:** Spanish (native), English (C2), French (B1).

Experience

Avale

Madrid, Spain

AI & Software Engineer

April 2025 – Present

Python, AWS, Azure, GCP, LangChain, GenAI, ETL, RAG, MCP, NLP, LLM.

- Designed and deployed AI-powered document-generation agent systems using Amazon Bedrock, Lambda functions and Claude Sonnet, reducing production time from 8h to 24min per document (95% reduction).
- Engineered RAG implementations for the development of chatbots using Azure Cognitive Search, ML and AI Foundry, using vectors and embeddings to decrease information retrieval latency by 90%.
- Developed AI-based solutions for the segmentation and analysis of images using GCP and Vertex AI, designing the end-to-end pipeline and cutting workload in classification by 80%.

NFQ Advisory Services

Madrid, Spain

Software Associate Consultant

January 2025 – March 2025

Python, Java, AWS, Docker, Kubernetes, CI/CD, ETL.

- Designed and implemented ETL pipelines for 4 IMM risk calculation processes, processing 2M+ credit exposure records daily using Python (Pandas, PySpark) and Java batch jobs on Unix environments.
- Deployed microservices architecture using Docker and Kubernetes for parallel processing of EAD calculations, reducing batch execution time by 10%.

Satelec - UPM Employment and Technology Forum

Madrid, Spain

Member of the Organizing Committee

September 2022 – July 2024

Javascript, React, Notion, Leadership, Collaboration, Problem-solving.

- Coordinated +100 participants each year, including companies like Apple, Amazon and BBVA, and organized +80 conferences, workshops, and activities arranged in the months leading up to the forum.
- Developed features and improved the UI/UX of Satelec's website, increasing general web interaction by 60% and CV submissions by 40%.

Indra

Madrid, Spain

Defense and Security Systems Intern

September 2021 – July 2022

Python, Pytorch, TensorFlow, scikit-learn, ML, Deep Learning.

- Developed CNN-based model for radar signal classification using PyTorch, training on 50K+ simulated AESA radar returns to detect and classify aerial targets improving pattern detection efficiency by 30%.
- Implemented noise reduction pipeline using TensorFlow, applying wavelet transforms and autoencoder architecture to filter Doppler radar data, enhancing signal-to-noise ratio from 12dB to 18dB.

Projects

Nexxo

September 2025 – Present

TypeScript, Javascript, Next.js, React, Swift, Expo, Notion.

Developed a smart expense-splitting app with currency indexing and a webapp. Converts local currency to dollars automatically so debts stay fair over time, featuring AI-driven features and being part of strategy.

Caamaño Inmuebles

July 2025 – Present

TypeScript, Javascript, Next.js, React, Notion.

Real estate website and digital transformation project for a 37-year-old agency in Margarita Island, Venezuela.

Certifications

Amazon Web Services

AWS Certified Cloud Practitioner

September 2025

Foundational knowledge of AWS Cloud, covering core services, security and architecture.

AWS Certified AI Practitioner

October 2025

Understanding of AI/ML services on AWS, including SageMaker, Bedrock, and best practices.

Microsoft Azure

Azure Fundamentals (AZ-900)

November 2025

Core Azure concepts, services, security, privacy, compliance, and cloud service models.

Azure AI Fundamentals (AI-900)

December 2025

Fundamentals of AI and ML on Azure, including Azure OpenAI, ML and AI Foundry.

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.