

# Iván Alfredo Caamaño Castañeda

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## 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

### Avvale

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

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<b>Nexxo</b> <i>Typescript, Javascript, Next.js, React, Swift, Expo, Notion.</i> 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.	<b>September 2025 – Present</b>
<b>Caamaño Inmuebles</b> <i>Typescript, Javascript, Next.js, React, Notion.</i> Real estate website and digital transformation project for a 37-year-old agency in Margarita Island, Venezuela.	<b>July 2025 – Present</b>

## Certifications

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<b>Amazon Web Services</b> <b>AWS Certified Cloud Practitioner</b> Foundational knowledge of AWS Cloud, covering core services, security and architecture.	<b>September 2025</b>
<b>AWS Certified AI Practitioner</b> Understanding of AI/ML services on AWS, including SageMaker, Bedrock, and best practices.	<b>October 2025</b>
<b>Microsoft Azure</b> <b>Azure Fundamentals (AZ-900)</b> Core Azure concepts, services, security, privacy, compliance, and cloud service models.	<b>November 2025</b>
<b>Azure AI Fundamentals (AI-900)</b> Fundamentals of AI and ML on Azure, including Azure OpenAI, ML and AI Foundry.	<b>December 2025</b>

## Education

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<b>Universidad Politécnica de Madrid</b> <b>Master of Engineering in Network and Telematic Services</b> Relevant coursework: AI/ML, Big Data, Cloud Computing, Blockchain, Cybersecurity and IoT.	<b>Madrid, Spain</b> <b>September 2023 – July 2024</b>
<b>Bachelor of Engineering in Telecommunications Technologies and Services</b> 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.	<b>September 2019 – July 2023</b>