Ivan Alfredo **Caamano Castaneda**

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Summary

I am an AI Software Engineer with 4 years of combined experience in AI/ML, Data and Prompt Engineering, specialized in deploying GenAI agentic systems and solutions. 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, Vector DBs, REST.
- **Cloud and DevOps:** AWS, Azure, GCP, Docker, Kubernetes, Databricks, GitHub Actions, Agile.
- **Soft skills:** Leadership, Cross-functional collaboration, Technical communication.
- **Languages:** Spanish (native), English (C2), French (B1).

Experience

Avvale
AI & Software Engineer

Madrid, Spain
April 2025 – Present

Python, AWS, Azure, GCP, LangChain, GenAI, MLOps, 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
Software Associate Consultant

Madrid, Spain
January 2025 – March 2025

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

- 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 30%.

Satelec - UPM Employment and Technology Forum
Member of the Organizing Committee

Madrid, Spain
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.
- Implemented features and improved the UI/UX of Satelec's website, increasing general web interaction by 60% and CV submissions by 40%.

Indra
Defense and Security Systems Intern

Madrid, Spain
September 2021 – July 2022

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

- Designed and fine-tuned CNN-based for radar signal classification using PyTorch, helping in model evaluation with 50K+ simulated AESA radar returns to detect aerial targets.
- 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, Gemini, 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.

Caamano Inmuebles   July 2025 – Present
Typescript, Javascript, Claude, Next.js, React, Notion.
Real estate website and digital transformation project for a 37-year-old agency in Margarita Island, Venezuela.

Asociación Cuchilla del San Juan & APECAFEQ   July 2023 – September 2023
Shopify, Notion.
Designed and deployed two B2C e-commerce stores for Colombian coffee cooperatives during a 2-month on-site engagement as part of a sustainable development initiative between Universidad Politécnica de Madrid and Universidad Tecnológica de Pereira in Colombia.

Education

Universidad Politécnica de Madrid   Madrid, Spain
Master of Engineering in Network and Telematic Services   September 2023 – July 2024
Relevant coursework: Computer Science, AI/ML, Big Data, Cloud, 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: Computer Science, Web and Software Engineering, Data Structures and Algorithms, Network communications and Systems programming.

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.

Awards

Amazon Web Services   Madrid, Spain
SAP on AWS GenAI Hackathon Winner   May 2025
Built an automated data deduplication system for SAP RISE using Amazon Bedrock. Combined LLM-based agents and models to detect duplicates, clean records, and generate golden records in real-time.

Asociación Venezolana de Competencias Matemáticas   Caracas, Venezuela
Olimpiada Juvenil de Matemáticas   April 2018
National runner-up (2010, 2012) and regional champion with consistent national participation (2008-2018).