Juan José Serrano Mora

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Summary of Qualifications (5 bullets maximum)

- 1+ years of experience fine-tuning and evaluating transformer models, optimizing training/inference, and building AI/ML. (LLM's, BERT, GPT, T5).
- 1+ years of experience in software engineering, DevOps, and containerized environments (Docker, Kubernetes, Go, PHP, Python).
- Strong background in debugging, large-scale refactoring CI/CD, and applying software architecture patterns for reliability and maintainability.
- Effective communicator: authored 100+ pages of technical documentation and created accessible CS/AI content for broad audiences. created **AI/ML educational content**, and published **o-s contributions**.
- Proven leadership and teamwork through hackathons (NASA Space Apps, CodeLab), shift-leading in hospitality, and peer mentoring.

Education

Northern Arizona University – Flagstaff, AZ   Graduating May 2026

Bachelor of Science, AI/ML Engineering

Relevant Coursework and languages: C, C++, Java, Python, Golang, TS, bash, html…

- Artificial Intelligence, Machine Learning, Unsupervised Learning, Deep Learning, NLP

WORK EXPERIENCE

Junior AI/ML Engineer – Flagstaff, AZ   Aug 2025 – Present

- Fine-tune large language models (LLMs) across transformer architectures (text-to-text, image-to-text) using PyTorch, TensorFlow, Transformers, and PEFT.

- Developed and deployed machine learning (ML) pipelines from scratch. Improved efficiency of training and inference processes.

AI/ML Engineer Intern – Flagstaff, AZ   Jun 2025 – Aug 2025

- Fine-tuned encoder, decoder, and encoder–decoder transformers; optimized inference performance.

- Built an OpenAI-compatible API for integration and user context management.

- Contributed 50k+ LOC and refactored 30k+ LOC; authored 100+ pages of ML/LLM technical documentation.

DevOps Developer – Zaragoza, Spain   Sept 2024 – Nov 2024

- Developed and optimized a Property Management System (PMS) to improve workflows and maintainability.

- Applied Docker and Kubernetes to streamline deployment.

- Collaborated with cross-functional teams to deliver stable solutions.

Software Engineer Intern – Zaragoza, Spain   Jun 2024 – Sept 2024

- Delivered features and bug fixes in Go for enterprise software.

- Ensured reliability and scalability in production systems.

Hotel Sauce – Zaragoza, Spain   Jun 2023 – Dec 2023
Shift Lead / Barista

- Trained and coordinated staff, ensuring service quality under high-pressure conditions.

- Oversaw daily operations and shift logistics.

- Enhanced customer satisfaction and operational efficiency.

Construction Worker – Zaragoza, Spain   Summers 2021 & 2022

- Worked in collaborative teams to complete construction projects on schedule.

- Gained experience in disciplined, safety-focused work environments.

Volunteer Experience OR Campus & Community Involvement (volunteering + clubs/organizations)

NASA Space Apps Hackathon & CodeLab Hackathon   2023 – 2025
Team Lead / Participant

- Led 6+ member teams in project design and delivery under time pressure.

- Applied agile collaboration, pair programming, and effective project coordination.

University Student Representative   2025 – Present

- Advocated for peers and coordinated initiatives across the department.

Technical Content Creator – TikTok / @oneaiengineer   Jun 2024 – Present

- Created accessible videos on CS/AI for broad audiences and complex AI/ML topics into engaging educational content.