

# Joaquín Jiménez

## Machine Learning Engineer

☎ +34 675 26 03 53 | ✉ joaquinjimenezlc@gmail.com | 🌐 JoaquinJimenezLopezDeCastro | 📄 johacks/CV

### SUMMARY

Machine Learning Engineer experienced in large language model (LLM) application development and computer vision. Curiosity-driven and proactive, I thrive in fast-paced environments where initiative and innovation are valued. Eager to apply my expertise in a collaborative role advancing machine learning and software engineering solutions.

### EXPERIENCE

#### Management Solutions,

*Machine Learning Engineer at R&D branch*

Nov. 2022 – Nov 2024

Madrid, Spain

- 100x performance improvements in the **GreenLightning AI** algorithm, developed by **Qsimov**, leading to two project renovations. Acquired knowledge: **MLflow**, **Keras 3**, **JAX**, **Tensorflow**, **PyTorch** and **GPU distributed training**.
- Developed and deployed five **LLM applications**, including a **policy chatbot** using **Retrieval-Augmented Generation**, securing a €1M project with Inditex. Acquired knowledge: **FastAPI**, **Vue/React**, **AWS Bedrock**, **web-scraping**, **named entity recognition**, and **prompt engineering**.
- Built securized **HTTPS proxy** to serve the firm's applications, allowing potential clients to access demo versions without accessing internal network. Acquired knowledge: **AWS Route53**, **Cognito**, **EC2** and **Traefik**.

#### Computational Intelligence Group,

*Research Internship*

Feb. 2022 – July 2022

Madrid, Spain

- Developed a new **Bayesian Network classifier**, for mixed-variable multiclass datasets, that surpassed by +3% the accuracy of random forests while retaining model explainability.

#### Instituto de Ingeniería del Conocimiento,

*Summer Internship*

July 2020 – Sept. 2020

Madrid, Spain

- Deployed monitoring infrastructure of **Oracle** and **DB2** servers using **Zabbix**, integrating data with **ELK Stack**.

### PERSONAL PROJECTS

#### Open Source Contributions

Nov. 2024 – Dec. 2024

- Contributed “**Music Generation with Transformer Model**” and “**Vocal Track Separation with Encoder-Decoder Architecture**” tutorials to Keras.

#### Named Semaphores

Nov. 2024

- Created **Python package** that provides a high-level API for **POSIX named semaphores** and uploaded to **PyPi**.

#### VSPong

Jan. 2023 – Feb. 2023

- Developed a **VSCode extension** for multiplayer Pong with coworkers over **P2P** connections.

### EDUCATION

#### Polytechnic University of Madrid

*Master in Artificial Intelligence*

Sept. 2021 – July 2022

Madrid, Spain

- Graduated with a 9.22/10 score.

#### Autonomous University of Madrid, Higher Polytechnic School

*Computer Science Degree*

Sept. 2017 – May 2021

Madrid, Spain

- Graduated with a 8.95/10 score, 13 honorable mentions and 3 Excellence Scholarships from the Community of Madrid.

### SKILLS

#### Soft skills

- Leadership
- Mentoring
- Creativity
- Adaptability
- Time Management
- Critical Thinking

### HOBBIES

🎵 Piano & guitar

☕ Barista

♟ Chess

**Spoken Languages:** English (C1), French (B2) and Spanish (native).