

Máximo Fernández Núñez

AI tech lead

Website

maximofn.com

LinkedIn

in/MaximoFN

GitHub

@maximofn

HuggingFace

@maximofn

Kaggle

@maximofn

Blog

maximofn.com/blog



Resume Summary

+10 years of experience. Development of artificial intelligence systems for computer vision and generative AI using NLP and diffusion models. Optimization with TensorRT. Python, Pytorch, Numpy, Pandas, TensorRT, bash, terminal, SSH, docker, git, OpenAI API, HTML, CSS, Astro, Gradio, regular expressions, transformer architecture, HuggingFace. Experience in Jetson.



Work Experience

03/2024-
actual

AI tech lead, Bravent

- Technical Leadership.
- Technical Decision Making: appropriate technologies.
- Propose new solutions in the area/innovation.
- Develop SW established standards, high complexity, short deadlines.
- Development Supervision.
- Collaboration for the correct management of technical projects.
- Technical Risk Assessment
- Assist in the resolution of technical issues.
- Clear and effective communication
- Keeping up to date with the latest technologies and trends in the field

09/2022-
09/2024

Machine learning engineer / Generative AI & LLMs research, Sener Aeroespacial

- Development of convolutional segmentation networks, object detection using YOLO and depth.
- Workflow for creating synthetic images, using generative AI, with unusual weather conditions.
- Optimizing NN with TensorRT to run faster and use less memory VRAM
- Boot scripts for embedded devices. Anyone can boot an embedded device.
- Boosting the promotion of a colleague
- Mentoring of interns and juniors
- Research on the use of customized LLMs.

10/2017-
07/2022

AI Engineer, Arquimea

- Detection for a UAV. No necessary to buy device, saving 2000€ per UAV.
- Neural network prototype for vision-based geopositioning. In case of GPS disablement in an electronic war, the UAV is able to geoposition itself.
- Leadership design of HW and FW. Drastic reduction of cost.

01/2013-
10/2017

Electronic engineer, Indra

- HW and FW develop. Design, documentation, integration, testing, team work



Education

09/2005-
06/2011

Electronic engineering

Universidad Complutense de Madrid



Personal Info

Location

Madrid, Spain

Phone

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E-mail

maximofn@gmail.com



Tools

Python

Pytorch

TensorRT

Computer vision

LLMs

Generative AI

Huggingface

Numpy

Pandas

Matplotlib

Git

Docker

Scikit-learn

FastAPI

SSH

Conda

Astro

Gradio

Terminal



Languages

Spanish

●●●●●●●●

Native

English

●●●●●●●●

Professional

[EF SET 56/100](#)
[B2 Equivalent](#)

Portuguese

●●●●●●●●

Good

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Personal Projects

10/2023-
11/2023

[Subtify](#)

AI to which you give a youtube or twitch video and generates subtitles translated into the language you want, distinguishing each person who speaks in the video. If you activate the subtitles in Youtube and there are several people, it puts all the subtitles in the same color, so sometimes it can be difficult to know which person is generating the subtitles.

10/2023-
04/2024

[GPU monitor](#)

View temperature, percentage of use and processes of GPUs in the Ubuntu bar.

11/2023-
04/2024

[CPU monitor](#)

View temperature of CPU in the Ubuntu bar.

04/2024-
04/2024

[RAM monitor](#)

View temperature, percentage of use and processes of RAM in the Ubuntu bar.

04/2024-
04/2024

[Disk monitor](#)

View percentage of use of disk in the Ubuntu bar.

02/2023

[Alfred](#)

LLM wizard for the linux terminal. With this wizard you can ask questions to the linux terminal, asking how to do what you want to do, it gives you the solution and proposes you to execute it.



Competitions

06/2022-
09/2022

[HuBMAP + HPA - Hacking the Human Body](#)

Image segmentation of organs to detect functional tissue units (FTUs)

05/2020-
08/2020

[SIIM-ISIC Melanoma Classification](#)

Detect melanomas in moles through photos

11/2020-
02/2021

[Rainforest Connection Species Audio Detection](#)

Recognize animals through jungle audios

11/2020-
02/2021

[Cassava Leaf Disease Classification](#)

Detect diseases in plants through photos

09/2020-
12/2020

[Hash Code Archive - Drone Delivery - 3rd position](#)

Optimize the routes of drones that have to deliver packages to customers



Certifications

01/2023

• [EF SET English level Certificate \(56/100\)](#) - [B2 equivalent](#)



Skills

- High communication skills
- Solution proposition
- Eager to learn
- Resilience
- Creating a good environment
- Decisive attitude
- Presentation of results
- Dynamism
- Collaborate
- Improve
- Mentoring
- Teamwork
- Agility
- Proactivity
- Empathy