Aarón Espasandín Geselmann

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Developer with 4 years of Python expertise in Deep Learning, focusing on Computer Vision, and 3 years of experience crafting innovative designs using React with a strong emphasis on performance optimization.

Education

BS Computer Science & Engineering
UC3M   2020 - 2024

Remarkable Computer Science Skill
Strong background in developing high-performing, concurrent C++ distributed systems with a focus on scalability, utilizing message queues and sockets.

Languages
English   (Fluent)
Spanish (Native)
French   (Basic)

Professional Experience

Meta – PlayTorch Open Source Solutions Architect, Collaborator
October 2020 — February 2021

- Pioneering PlayTorch integration and deployment on all Apple Silicon devices.
- Advanced PlayTorch integration by creating an Android Virtual Device for Apple Silicon's ARM CPU architecture, enabling seamless execution on the latest Macs.   See Pull Request
- Tackled a challenging quantization runtime error, making PlayTorch template creation possible on ARM CPUs.   See Pull Request
- Main tools: React Native, TypeScript, Python, PyTorch and TorchScript.

SaturdaysAI – Frontend Engineer and Computer Vision Mentor
October 2022 — Today

- Significantly enhanced the website's performance by optimizing the loading time from 7s to a mere 2s. Redeveloping the site using React led to a 0.5s First Contentful Paint time.   See Loom in Spanish
- To accommodate the marketing team's need for seamless content creation, a refinement on the WordPress template and plugins was made using JavaScript and PHP, ultimately striking a balance between performance and usability.
- Conducting engaging face-to-face courses on Object Detection, Image Segmentation, and Autoencoders in OpenCV and Keras. Devised a fascinating challenge for video conferencing background blur. See Project

computervision.es – Founder
May 2022 — Today

- Created an education platform for teaching Computer Vision in Spanish with dynamic code transitions for seamless tutorial experiences. Hosted in an Ubuntu machine (Linux) on Digital Ocean and AWS, served using Nginx and Docker, and powered by Python, Django and PostgreSQL as the backend. .   See Website

Accomplishments

- 2nd Prize (€5,000) in the GameOfCode hackathon (Docler Holding, Luxembourg, 2020)   GitHub • Demo
- Developed TorchFakes, an award-winning DeepFake detector (SaturdaysAI, Madrid, 2022)   GitHub • Demo
- Achieved the highest score in my course (9.5/10) in the Programming subject, using Python (UC3M, Madrid)