Daniel Alejandro Rodríguez López

Backend engineer

Graduated in Computer Science. Interested in Open Source, Optimization, and Software Development. Always trying to learn new things.

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WORK EXPERIENCE

Research Support Technician
Biomedical Imaging and Instrumentation Group

01/2024 - Present   *Madrid*

Research group inside the Bioengineering department at Universidad Carlos III de Madrid

Achievements/Tasks
- Apply techniques to reduce memory consumption in DNN models without decreasing precision
- Debug memory leaks in tomography reconstruction program
- Python, PyTorch, C++

Researcher
次世代アーキPJ/ Fujitsu Limited

01/2023 - 08/2023   *Nakahara-ku, Kawasaki*

Achievements/Tasks
- Research and improve performance in the Matrix Product State simulation method in the Qiskit framework.
- Work is merged into the official Qiskit repository.
- Python, C++, OpenBLAS/Intel MKL, Intel VTune

Contact : Takumi HONDA - honda.takumi@fujitsu.com

AI Fullstack Engineer
Shazura ⧉

08/2018 - 08/2022   *Madrid*

Start-Up developing a new method for image recognition.

Achievements/Tasks
- Develop new core functionalities and create from scratch new demos and applications.
- Single-handed optimisation and redesign of the architecture to increase processing speed by 100%.
- Django, DFR, Celery (from scratch), Flask, Nginx, AWS

EDUCATION

Master in Informatics Engineering
Universidad Carlos III de Madrid ⧉

09/2020 - 09/2024   *GPA 8.65/10*

Achievements
- Honors in: High Performance Computing, Massive and Linked Data
- Selected in Vulcanus in Japan 2022-2023

Bachelor in Computer Science and Engineering
Universidad Carlos III de Madrid ⧉

09/2013 - 07/2017   *GPA: 7,96/10*

Achievements
- Focused in Artificial Intelligence
- Bachelor Thesis: Development intelligent behaviors in StarCraft: Brood War

HARD AND SOFT SKILLS

Python C C++ Java | GNU/Unix Environment

Patience | Adaptability | Teamwork

Creativity | Vim | Git | Django | Flask

Nginx | AWS | OpenCV | Numpy | SWIG

OpenBLAS/LAPACK

PROJECTS AND ACTIVITIES

PicoVolume (03/2022) ⧉
- External media buttons for a keyboard to up/down volume and change audio device.

Member of the GUL UC3M (09/2015 - Present) ⧉
- President (2020-2023).
- Organizer/Creator of the "GUL Jamón" series of events and activities focused on FOSS video games.
- Speaker in multiple talks, such as "Introduction to Python", "Introduction to Git" or "Assembling your computer"

LANGUAGES

Spanish   ●●●●●
English   ●●●●●
Japanese   ●●○○○

PERSONAL INTERESTS

Dogs | Kendo | Video games

Open Source | Paint very expensive miniatures

Reading | Did I say dogs? | Amateur baker