Miguel Ángel Rodríguez García

COMPUTER ENGINEER



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GitHub

About me

I'm Miguel Ángel, a Computer Engineer from Spain. I am also finishing a Master in Quantum Computing and have background in Physics from three years before moving onto CS.

Fields I'm interested: Quantum Computing, Artificial Intelligence, Machine Learning and Computer Vision.

Languages

English: B2.

Education

Master in Quantum Computing September 2024 - September 2025 International University of La Rioja.

Bachelor in Computer Engineering September 2020 - July 2025 University of Murcia.

Bachelor in Physics

September 2017 - July 2020

University of Murcia. Not finished.

Technical Skills

Languages: C/C++, Python, C#, Java, R, HTML, CSS.

Technologies: Git, LaTeX, Unity.

Frameworks: Qiskit, Pennylane, TensorFlow, Keras, Caret,

OpenCV.

Experience

Private tutor in Physics, Mathematics September 2017 - June 2025 and Chemistry

Provided private tutoring in Mathematics, Physics, and Chemistry to students of all levels (primary, secondary, and high school), with a focus on academic support and exam preparation.

Master's Internship

March 2025 - May 2025

Donostia International Physics Center (DIPC)
Developed a Python script to solve the Bayesian Network Structure
Learning (BNSL) problem using O'Gorman's algorithm.

Projects and Courses

Parallelization Strategies for the A* algorithm

Bachelor's Thesis. University of Murcia.

Designed and implemented several parallel versions of the A* pathfinding algorithm using OpenMP. Evaluated performance and scalability on large search spaces, comparing sequential and parallel strategies such as SPA* and HDA*. The project included custom map parsing, heuristic optimization, and extensive benchmarking.

HomeLab server

Personal project

Deployed a private server in my home network with services like Nextcloud, AdGuard Home and NAS drives.

IBM Qiskit Global Summer School 2024