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 and Chemistry — September 2017 - June 2025
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