

Paco Algar Muñoz

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ABOUT ME

I'm a Computer Engineer interested in software development and problem-solving. I've worked on several personal projects in areas such as systems programming, application development, and machine learning. I'm motivated to keep learning, take part in real-world projects, and contribute with useful and effective solutions.

EXPERIENCE

Internship in Computer Engineering

Feb 2025 – May. 2025

Magtel

Córdoba, Spain

- Designed and implemented predictive AI models (regression and time series forecasting) to improve decision-making in internal projects.
- Contributed to the development of digital twins for monitoring infrastructure systems
- Developed a web dashboard to visualize model outputs using Laravel.
- Wrote technical documentation covering algorithm design, testing methodology, and deployment guidelines.
- Collaborated with the R&D department in the preparation of funding proposals for new AI-driven projects.

PROJECTS

GPoeTry | *A tiny GPT model to generate Spanish poetry, built from scratch.* | Python

- <https://github.com/Pacatro/gpoetry>

UcoRecSys | *Recommendation system for educational settings* | Python

- <https://github.com/Pacatro/UcoRecSys>

MiniNN | *Minimalist deep learning crate for Rust* | Rust

- <https://github.com/Pacatro/mininn>

SiCompiler | *A basic compiler for SiCoMe programs* | Rust

- <https://github.com/Pacatro/sicompiler>

Pseudocode Interpreter | *Interpreter for a custom pseudocode language* | C++

- <https://github.com/mayumar/Interprete-pseudocodigo>

Summer Camp Management System | *Web-based management platform* | Java

- https://github.com/Pacatro/summer_camp

Battleship | *Multiplayer TCP/IP server for Battleship game* | C++

- <https://github.com/mayumar/Battleship>

EDUCATION

Master's Degree in Artificial Intelligence Research

Menéndez Pelayo International University

Oct. 2025 – Present

Online / Remote

Erasmus Exchange Program

Munster Technological University

Sep. 2024 – Dec. 2024

Cork, Ireland

Bachelor's Degree in Computer Engineering

University of Córdoba

Sep. 2021 – Jun. 2025

Córdoba, Spain

SKILLS

Languages: Spanish (native), English (B2, Cambridge certified)

Soft Skills: Teamwork, Strong organizational skills, Continuous learning, Problem-solving mindset, High sense of responsibility

Technical Skills: Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Recommender Systems, Time Series Analysis, Full-Stack Development, Backend Development, Algorithms, Data Structures, OOP, UML, CI/CD

Programming Languages: Python, Rust, C, C++, Java, JavaScript, TypeScript, SQL, PL/SQL, PHP, HTML, CSS, LaTeX

Other Technologies: PyTorch, Lightning, MLFlow, ONNX, Scikit-learn, NumPy, Pandas, Matplotlib, SciPy, FastAPI, Laravel, Node.js, React, Astro, Express.js, Spring Boot, MySQL, SQLite, PostgreSQL, TimescaleDB, Git, GitHub, Docker