

# 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

Córdoba, Spain

*Magtel*

- 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](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**

Oct. 2025 – Present

Online / Remote

*Menéndez Pelayo International University*

### **Erasmus Exchange Program**

Sep. 2024 – Dec. 2024

*Munster Technological University*

Cork, Ireland

### **Bachelor's Degree in Computer Engineering**

Sep. 2021 – Jun. 2025

*University of Córdoba*

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