

Pablo López Martínez

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Education

University of A Coruña, Computer Science degree, bilingual track, specialization in Computation

- Grade: 8.7/10
- **Honors:** Awarded 6 Honors Distinctions in Database Systems, Discrete Mathematics, Algebra, Computer Fundamentals, Language Development and Final Degree Project.
- **Most Interesting Courses:** Algorithms, Internet and Distributed Systems, Software Architecture, Machine Learning.

Experience

Software Engineer Intern, Indra – A Coruña, Spain

February 2025 – Act

- Built **RESTful APIs** using **FastAPI** to expose data services and support interactive client applications.
- Developed modular, web-based interfaces with **Streamlit** to deliver dynamic visualizations and user interaction.
- Designed and implemented automated **ETL workflows**, integrating cloud technologies for scalable data processing.
- Used **SQL** to build queries and views that powered backend features and application data.

Projects

Traffic Signal Detection

GitHub

- Built a real-time system to detect and classify road signs with high accuracy.
- Used shape and color filters to reduce false positives and boost robustness.
- Developed in Python using OpenCV and NumPy.

House Price Analysis App

GitHub

- Interactive web app for housing market trend analysis and visualization.
- Implemented user authentication and role-based access for secure, personalized data.
- Built with Python, Streamlit, FastAPI, Pandas, and Matplotlib.

Molecular Docking Web App

Live App

- Full-stack platform for molecular docking via natural language and 3D visualization.
- Backend developed with Django; integrated AutoDock Vina, OpenAI API, and 3Dmol.js.
- Application deployed in production using Docker for scalable and reproducible environments.

Skills

Technologies: Python, C, Java, SQL, API REST, Ocaml, Git, Github.

Soft skills: Problem solving, effective communication, teamwork, leadership

Achievements and Extracurricular Activities

Padel Coach, SportMadness – Club de Golf de la Coruña, Spain

Nov 2023 – Present

- Worked as a Tennis and Padel Coach with SportMadness, training both children and adults on weekends and at a summer camp.

Galician Regional Debate Tournament – Galicia, Spain

- Participated in the Galician Regional Debate Tournament, reaching the quarterfinals.

Academic Excellence Award in High School – Spain

- Received the Academic Excellence Award during High School for outstanding academic performance.