

# Pablo Prior

## Software and Game Engineer

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Dear Hiring Team,

My name is **Pablo Prior**, and I am **Software and Game Development Engineer** student. Throughout my studies, I have worked on various projects of different scopes and sizes, always focusing on the programming side (**software, game mechanics, multiplayer implementation**, and other technical aspects).

One of my most notable projects is **Decor Dilemma**, a game based on a simulation of purchasing, decorating spaces, and managing inventories within the construction industry, all designed for **Virtual Reality in Unity (C#)**. In this project, I was responsible for both the core gameplay mechanics and ensuring adaptability for VR.

Another significant project is **The Shop Next Door**, a resource management, personal life, and time management game centered around running a grocery store. I was in charge of the multiplayer system, as it is an online game for two players, using **Unity's Netcode** and programming in **C#**. Additionally, I worked on the database management and login system to store player data. For this, I used **MySQL Workbench** to create and manage the database, connecting it to an **AWS** environment using **EC2** and **RDS**. I also implemented **Python** scripts to handle all **SQL requests** to the database.

For my final thesis project, I completed a **Machine Learning project focused on detecting cheating behavior in online multiplayer video games**. This work explored and compared different classification models like Random Forest, Gradient Boosting and XGBoost, under various hyperparameter optimization strategies, both with and without class balancing techniques such as SMOTE.

In addition, I gained professional experience at **Nextlane**, where I worked in **software development**. My responsibilities included designing, developing, and deploying software solutions using **C# and .NET on AWS**.

Currently, I am pursuing a **Master of Engineering in Artificial Intelligence** at the **International University of La Rioja (UNIR)**, deepening my knowledge in machine learning, data science, and intelligent systems.

All these skills and experiences allow me to contribute and further develop my abilities in a company like **Axpo Group**.

Sincerely,

Pablo Prior