

# ALEJANDRO GÓMEZ NOÉ



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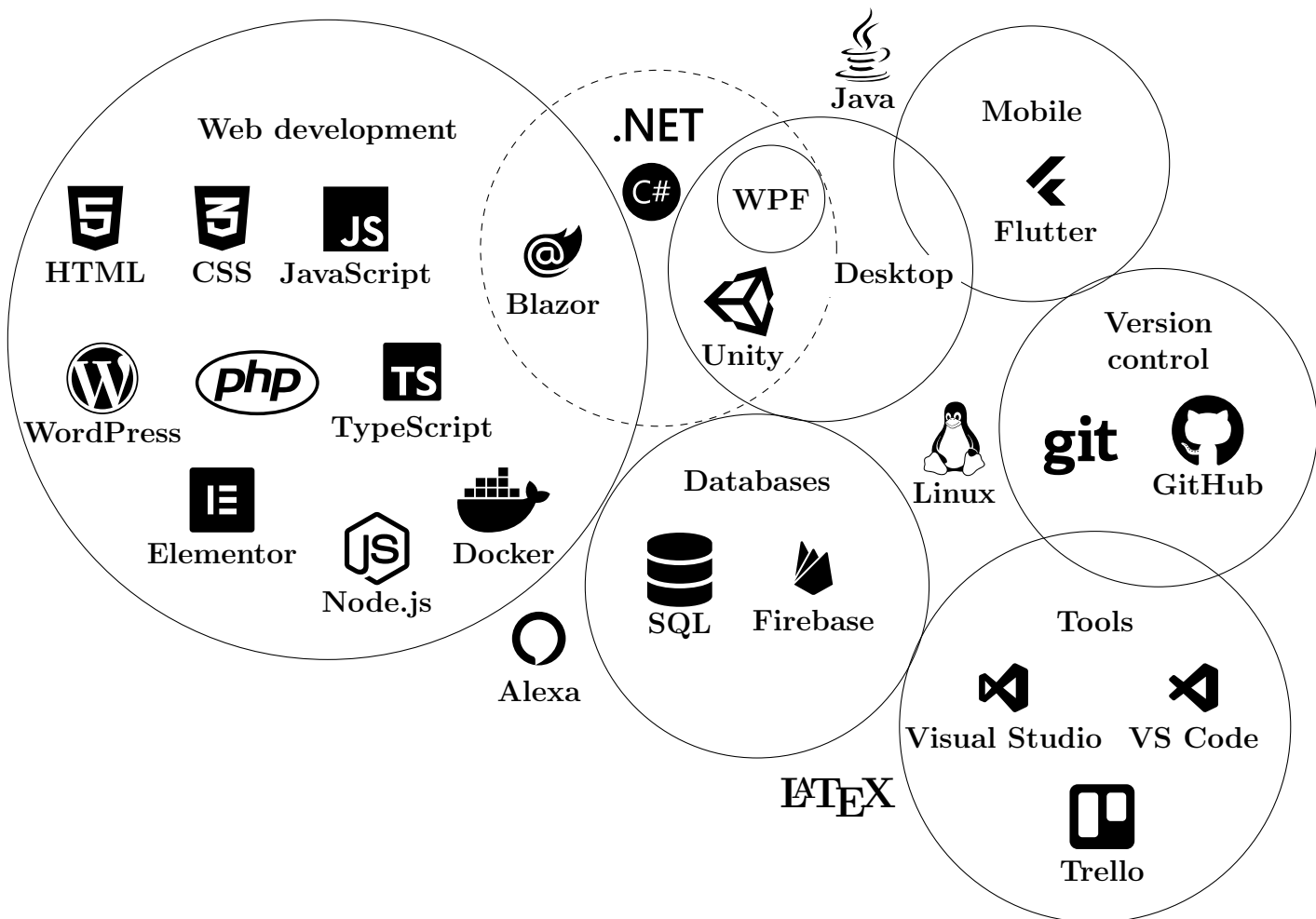
🌐 [Alejandro Gómez Noé](#)

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Alejandro Gómez is a **Software engineer**,  
currently **working** at the **Universitat Jaume I (UJI)**.

## Knowledge



# Experience

## May 2024 - February 2025 — Research Support Staff — Universitat Jaume I (UJI)

As **research support staff** in the *Knowledge Engineering* group at the *Universitat Jaume I (UJI)*, my work consists of **research** and **application development** within the framework of the **research project** *MINEGUIDE*.

### MINEGUIDE Project

The full name of the project is: “*Integrated development and exploitation of process mining models and clinical guideline models in support of the Learning Health System (MINEGUIDE)*”, and it is a collaborative project between 3 Spanish universities:

- **UJI** - Universitat Jaume I (Castellón) (*coordinator*)
- **UPV** - Polytechnic University of Valencia (Valencia)
- **UMU** - University of Murcia (Murcia)

whose objective is the development of a **decision support system** in the field of **healthcare**.

The project is based on **process mining** and **clinical guidelines**, and focuses on improving **care quality** and **efficiency** of healthcare processes by finding **relationships** between **real processes** (obtained from data) and **ideal processes** (defined in clinical guidelines).

My main work has been to conduct a **case analysis**, applying **process mining** techniques to a set of hospital data related to **COPD** (*Chronic Obstructive Pulmonary Disease*), with the aim of finding if there are **relationships** or **deviations** between the real and ideal processes, publishing the results in a scientific article.

## March 2022 - April 2024 — Mid-level software engineer — ITACA-SABIEN (UPV)

As a **mid-level software engineer** at the *SABIEN* (*Technological innovations for Health and Wellbeing*) group from the *Institute of Applied Information Technologies and Advanced Communications* (*ITACA*), which is part of the *Polytechnic University of Valencia* (*UPV*), my work consists on **developing applications** and providing **technical support** in various ways in the context of several **research projects**.

### Projects I have participated in

- **MOVE-IT** (2023 - 2024)

- Training program for improving physical exercise of people with intellectual disabilities through *exergames* and technology
- **European ERASMUS+ project** in collaboration with:
  - \* **IVASS** - *Instituto Valenciano de Servicios Sociales* (Spain)
  - \* **CERCIOEIRAS** - *Cooperativa de Educação e Reabilitação de Cidadãos com Incapacidade* (Portugal)
  - \* **UiT** - Tromsø University (Norway)
  - \* **ORAS** - *Ospedale riabilitativo di Motta di Livenza* - Hospital (Italy)
- I collaborated with **UiT** in the development of the apps for the project (*AGA* and *Sorterius*), built with **Unity**
- I implemented a website with an API for data collection using **Blazor**, **ASP.NET Core Identity** and **EFCore**, which I then hosted in a *UPV* server
- I integrated the *Sorterius* app with said API for user management and data collection during the pilots for later study
- I managed the server and worked alongside the participant centers during the pilots to ensure the apps were working properly
- **PM4H** (2022 - present)
  - Usage of **Process Mining** techniques for improving efficiency on the management of information in the health sector
  - I developed several features for the “**PMApp**” **desktop application**, which runs **process mining** algorithms for treating and visualizing different kinds of data
  - Said app is developed in **C#**, and uses **WPF** for the user interface
  - I have improved the visualization system for tables and histograms, I have added support for using *proxies*...
- **LIFECHAMPS** (2023)
  - **European project** for improving the quality of life of cancer patients, consisting of a consortium of 15 partners from 10 countries, led by the [Aristotle University of Thessaloniki](#)
  - I closely collaborated with the **IIS La Fe** and the company **MySphera**, **configuring Raspberry Pi** devices and performing a total of **50 installations** in patients’ homes in the province of Valencia between March and July 2023 for a multinational pilot project
- **DIAL** (2022 - 2023)
  - **Voice assistant** for the detection and addressing of Unwanted Loneliness in the elderly, based on the *open source* **Mycroft** system
  - My contribution included training a **machine learning** model so the phrase “*Hola dial*” can be used as a wake word for the assistant
  - On top of that, I have **configured** over 20 **Raspberry Pi** devices so they function as voice assistants by means of the DIAL system

- **Orriols Arran de Terra** (2022)

- **Website** intended for broadcasting news and local activities from the *Els Orriols* neighborhood in Valencia
- I developed said website using **WordPress** and **Elementor**
- In order to create some custom features, I built **plugins** with **PHP**
- I also used **HTML**, **CSS** y **JavaScript**

## Education

### University

Computer Science degree Mention in Software Engineering Polytechnic University of Valencia (UPV), 2021
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### Projects for subjects

- **Al Loro** ([Repositorio](#)) ([Memoria](#)):

- I implemented by myself an Amazon **Alexa skill** for my **final degree project**, using **Node.js** and **TypeScript**.
- I integrated said skill with a **database** hosted in **Firebase**, on top of creating a mobile app using **Flutter** to manage user preferences
- I designed an authentication system using several **AWS** services; such as **Lambda**, **DynamoDB** or **API Gateway**

- **Frozen Out** ([Repositorio](#)):

- I was part of the development team for a video game made in **Unity** with **C#** as a project for the “*IPV*” subject (2019)
- I designed a **dialog system** with support for using formats such as bold, italics, and different colors by working on top of the ***YarnSpinner*** library
- This project was part of the **Project fair (2019)** organized by the *ETSINF* (computer science school at the *UPV*)
- The project carried on without me after the final submission for the subject (January 2020). In February of 2021, *Frozen Out* won the **PlayStation Commitment Special Award** ([article in Spanish](#))

## Languages

- **Spanish**, native

- **English**, C1 level (*First Certificate in English - Grade A - Cambridge English Level 2*)
- Catalan (Valencia), C1 level

## Activities

### Mentor - Technovation Challenge

I participated as a volunteer mentor for the [Technovation Challenge](#) contest organized by Iridescent in its 2019 edition, in collaboration with [American Space](#), an association from the *Polytechnic University of Valencia (UPV)*.

## Others

- Driving license (class B)