

# ALEJANDRO GÓMEZ NOÉ



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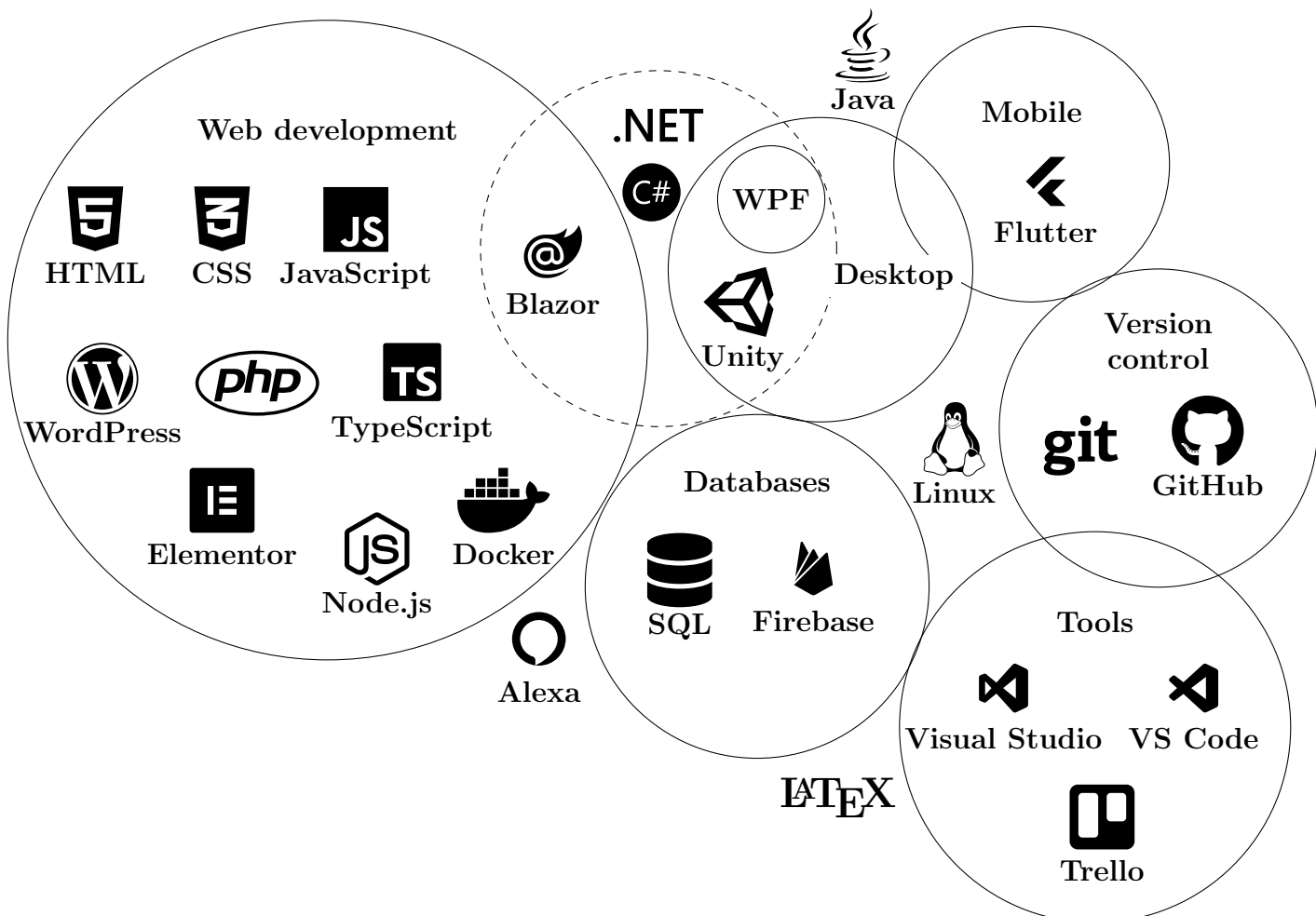
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Alejandro Gómez is a **Software engineer**,  
currently **working** at the **ITACA-SABIEN** research group  
from the **Polytechnic University of Valencia (UPV)**.

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## Knowledge



# Experience

## march 2022 - present — 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
- **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**
- **VALUE** (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*...
- **DIAL** (2022 - 2023)
  - **Voice assistant** for the detection and addressing of Unwanted Loneliness in older adults.
  - This assistant is based on the *open source* **Mycroft** system, and uses **Python** for developing ***skills***
  - My main contribution has been training a ***machine learning*** model with the ***Precise*** tool (created by Mycroft) so people can use the phrase “*Hola dial*” 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
  - This knowledge has been useful for **configuring** additional **Raspberry Pi** devices and carrying out **installations in patients’ houses** for the **Lifechamps** (2023) **European project**

## Education

### University

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

### 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