

ALEJANDRO GÓMEZ NOÉ



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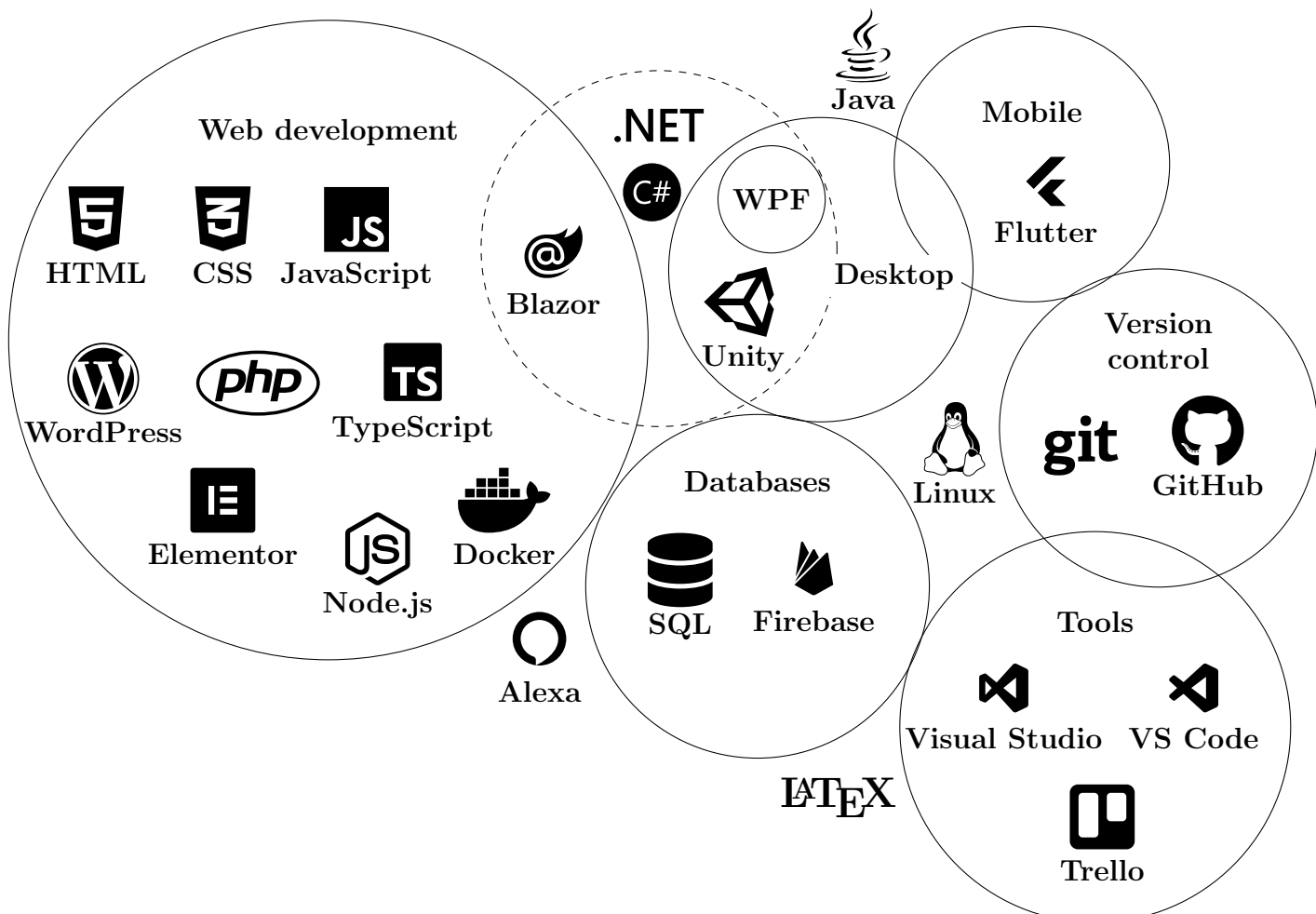
🌐 [Alejandro Gómez Noé](#)

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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)**.

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 “***PMA***” **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](#))

Scientific Summer School - 2015

During the summer of 2015, I participated in a scientific summer school (called “*Campus Científicos de Verano*” in Spanish) (organized by the [Spanish foundation for science and technology \(FECYT\)](#) and the Spanish Ministry of Education), specifically in the “Network and Internet Security” project that took place at the Carlos III university in Madrid.

Languages

- **Spanish**, native
- **English**, C1 level (*First Certificate in English - Grade A - Cambridge English Level 2*)
- Catalan (Valencia), B1 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