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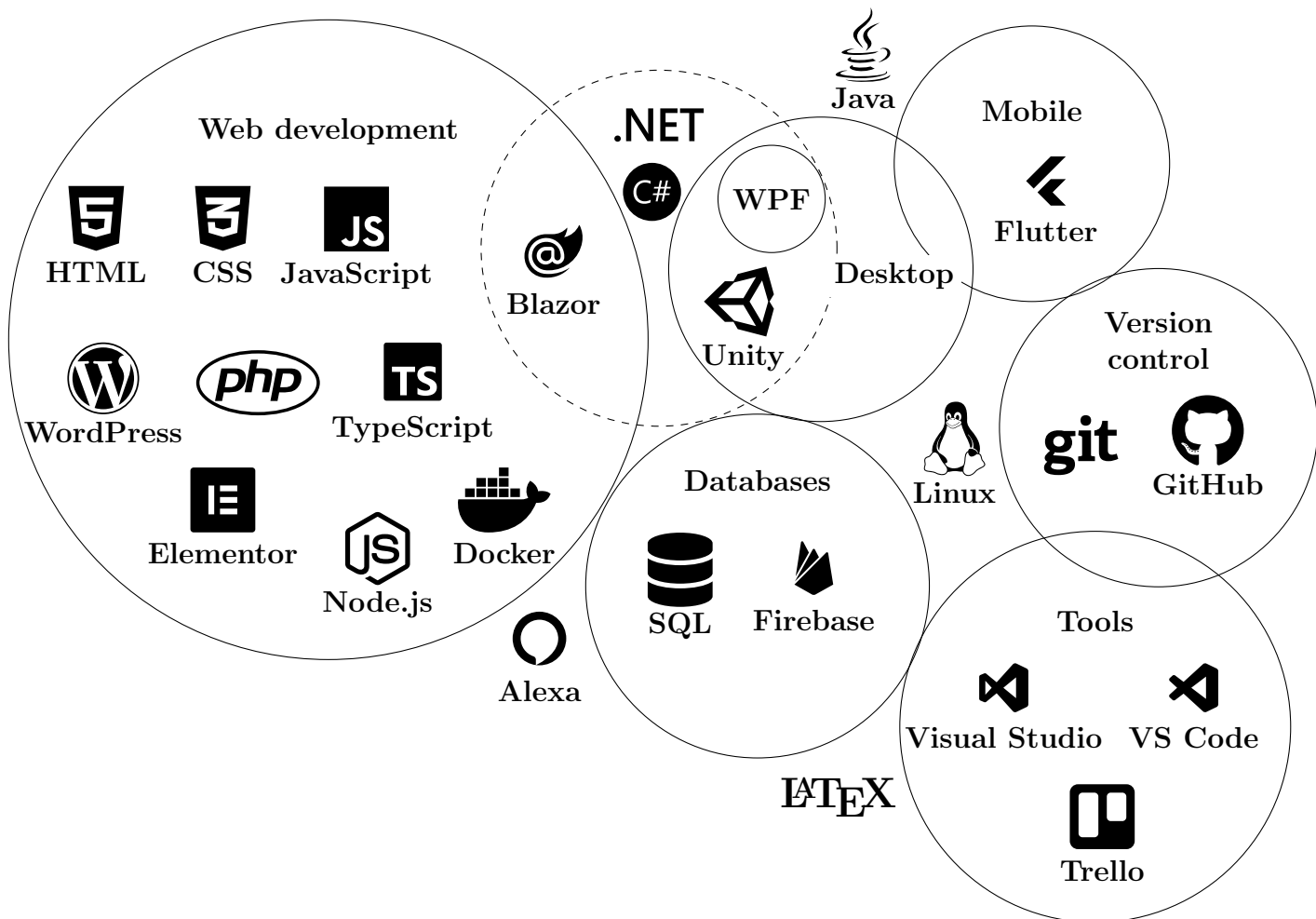
🌐 [Alejandro Gómez Noé](#)

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

Knowledge



Experience

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

As research support staff in the *Knowledge Engineering* group at *Universitat Jaume I (UJI)*, I participated in the *MINEGUIDE* project, which aims to develop a **decision support system** in the field of **healthcare** using **process mining** and **clinical guidelines**. This is a collaboration between *Universitat Jaume I (UJI)*, *Polytechnic University of Valencia (UPV)*, and the *University of Murcia (UMU)*.

MINEGUIDE Project

My main contribution was to conduct a **case analysis** applying **process mining** techniques to hospital data related to **COPD** (*Chronic Obstructive Pulmonary Disease*), identifying **relationships** and **deviations** between the **real processes** (obtained from the data) and the **ideal processes** (defined in the clinical guidelines), with the aim of publishing the results in a scientific article.

During the process, I also made improvements to the **process mining tool** used, **PMApp** (developed by the *SABIEN* group at *UPV*), as well as using **LLMs** to analyze and extract information from medical data in free text, automating the process and deploying my own to increase security.

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

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 enhanced and refined the apps developed by **UiT** with **Unity** (*AGA* and *Sorterius*), addressing existing issues and optimizing functionality
- I implemented a custom backend for the project, including 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 successfully integrated the *Sorterius* app with the backend 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
- The pilot tests involved a total of **17 participants** over a period of **2 weeks**, with a total of **158 gaming sessions**. A **77%** of the participants **increased their use of smartphones** as a result of using the application, and their motivation remained high throughout the trial period

- **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 for a multinational pilot project, positioning Spain as one of the countries with the most installations in the project
- Additionally, I provided technical support to patients and researchers at La Fe

- **DIAL** (2022 - 2023)

- **Voice assistant** for the detection and addressing of Unwanted Loneliness in the elderly, based on the *open source* [Mycroft](#) system
- I trained and tested a **machine learning** model so the assistant can be triggered with the phrase “*Hola dial*”
- On top of that, I **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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University projects

- **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**

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)*.