

# VÍCTOR ASENJO CARVAJAL

+34 671157616 ◇ Barcelona, L'Hospitalet de Llobregat (08901)

[victorasenj@gmail.com](mailto:victorasenj@gmail.com) ◇ [linkedin.com/in/victorasenjo](https://www.linkedin.com/in/victorasenjo) ◇ <https://victor-asenjo.github.io>

## EDUCATION

**Bachelor's degree in Informatics Engineering - Major in Software Engineering** 2019 - 2023  
Polytechnic University of Catalonia (UPC - FIB)

## SKILLS

**Languages:** Spanish (Native); Catalan (Native); English (C1 – Advanced)

**Programming:** C++ (High); Java (High); Python (High); Spring Framework (High); CCL (Cerner Command Language - High); Flutter (Dart - High); SQL (High); JavaScript (Intermediate); HTML5 (Intermediate)

**Technical Skills:** Oracle Cloud Infrastructure (OCI); Cloud-native services; PostgreSQL; MySQL; Docker; Git; Continuous Integration/Continuous Deployment (CI/CD); Agile Software Development; Scrum; Kanban; JIRA; Confluence;

**Soft Skills:** Problem-Solving; Analytical Thinking; Effective Communication; Team Leadership; Mentoring & Knowledge Sharing; Decision-Making Under Pressure; Adaptability; Cross-Functional Collaboration

## EXPERIENCE

**Software Engineer** Dec 2023 – Present  
Oracle *Barcelona*

- Designed and optimized reporting solutions using **SQL, Python, and Oracle Cloud**, cutting query times from 30 minutes to less than two seconds and ensuring reliability across 10+ TB of healthcare data.
- Automated manual workflows with **Python and Shell scripts**, saving 20+ hours of operational overhead per month.
- Developed an **AI chatbot** to help building queries using a custom query language **CCL (Cerner Command Language)**.
- Partnered with teams in Dubai, Spain, and the US to deliver **custom clinical reports**, enhancing decision-making for 50+ hospitals worldwide.

**Associate University Professor** 2023 – Present  
Polytechnic University of Catalonia – Software Engineering Projects *Barcelona*

- Instructed and mentored 60+ students in **Agile, Scrum, and Kanban**, ensuring hands-on application of software engineering practices.
- Supervised semester-long projects with **Java, Spring Boot, SQL, and React**, guiding 12 teams to deliver **100% of projects on time** with industry-grade quality.
- Evaluated and supervised Spain's national university entrance exams (**PAU**), correcting 200+ exams in 2025 while ensuring **100% consistency and fairness** in assessments. Jun 2025

**Research Support Staff** Jan 2023 – Nov 2023  
Polytechnic University of Catalonia – DTIM Research Group *Barcelona*

- Built and maintained **ETL pipelines** for heterogeneous biomedical datasets, reducing data integration time by **40%** and improving reproducibility in published studies.
- Supported 10+ PhD researchers with **data wrangling, visualization, and semantic web tools**, accelerating research output and cutting preparation time by **25%**.
- Co-authored technical documentation and assisted in preparing academic publications, contributing to 2 peer-reviewed papers.

**Data Analyst** Oct 2022 – Jan 2023  
SDG Group · Data & Analytics Consulting Firm *Barcelona*

- Improved **data quality processes** for a major banking client by designing validation rules and automated checks, reducing reporting inconsistencies by **30%** and ensuring compliance with **Basel III and IFRS 9 standards**.

PROJECTS

**FCBQ Telegram Bot.** Developed a bot for the Catalan Basketball Federation (FCBQ) to automate referee notifications, schedules, and updates, improving communication efficiency and reducing manual coordination. Built with *Python*, *Telegram Bot API*, *Google Calendar* and *deployed and hosted on OCI*. Leading the development of a specialized LLM application leveraging LangChain and RAG to transform static sports regulations into an interactive, natural language query system.

**Mobile Applications (Google Play Store).** Published multiple Android apps, including games and utility tools. Built using Flutter (Dart), integrated with Firebase for analytics and authentication.

**Personal Portfolio Website.** Built and deployed a responsive portfolio to showcase projects and technical skills. Using *ReactJS*, *TailwindCSS*, *GitHub Pages*. ([View here](#))

PUBLICATIONS

**Reengineering the architecture of ODIN (On-demand Data Integration)** 2023  
[Published on UPC Commons \(upcommons.upc.edu\)](#)

**Musical geography of Hospitalet de Llobregat** 2019  
Winner of the “City” Award of Hospitalet de Llobregat 2019  
[Published at Museu de L’Hospitalet](#)

EXTRA-CURRICULAR ACTIVITIES

**Basketball Referee – FCBQ (Catalan Basketball Federation)** 2018 – 2025

**FEDDF (Spanish Federation of Sports for People with Physical Disabilities)** 2022 – 2025  
Licensed referee (#11584) at **Primera CABQ** and certified national referee in wheelchair basketball (**Honor División**). Officiated competitive and adaptive sports, strengthening **decision-making under pressure, conflict resolution, and leadership** skills. Transitioned in 2025 to focus on professional and personal development projects.

**Accredited Table Official – FCBQ / FEB (Group 3)** 2018 – 2023  
Managed game statistics, timekeeping, and compliance with official regulations at regional and national basketball competitions.

**Leisure and Free Time Monitor Course – Generalitat de Catalunya** ID 156274  
Completed certified training in leisure and free time education, focusing on teamwork, activity planning, and youth engagement.