

Alex Marín Liébana

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Software Developer & Language Learning Enthusiast

Education

Universitat Autònoma de Barcelona

BACHELORS DEGREE IN EAST ASIAN STUDIES

Spain
2022 - 2026

- Interdisciplinary studies focused on the languages, history, politics, economics, and societies of China, Japan, and Korea
- Specialization in Japanese society and language

Institut Bernat el Ferrer, Barcelona

ADVANCED VOCATIONAL DIPLOMA IN WEB APPLICATION DEVELOPMENT

Spain
2019 - 2021

- Development of full-stack web applications using modern frontend and backend technologies

Web Development Software Engineering

Institut Bernat el Ferrer, Barcelona

INTERMEDIATE VOCATIONAL DIPLOMA IN COMPUTER SYSTEMS AND NETWORKS

Spain
2017 - 2019

- Technical training in computer systems administration, networking, and IT infrastructure management
- Hands-on experience configuring local networks, operating systems, and cybersecurity fundamentals

Computer Systems Networking Cybersecurity

Professional Experience

Self-Employed

FREELANCE SOFTWARE DEVELOPER

Barcelona, Spain
July 2023 - April 2026

- Develop business management applications and automation tools for companies
- Design custom backend systems, workflow automation solutions, and internal management platforms tailored to client requirements
- Collaborate directly with clients to analyze operational needs and deliver scalable software solutions

Rust .NET Java Vue Automation Full Stack Development

Asolcon

SOFTWARE DEVELOPER

Barcelona, Spain
January 2022 - November 2022

- Developed business management applications using .NET technologies including Blazor and Entity Framework
- Handled both frontend and backend development for enterprise software solutions
- Collaborated with teams to improve application performance, usability, and maintainability

.NET Blazor Entity Framework

Ajuntament de Molins de Rei

WEB DEVELOPER (INTERNSHIP)

Molins de Rei, Spain
October 2020 - June 2021

- Developed and maintained internal applications for the city council
- Worked with WordPress, Vue, and Laravel to build administrative and management tools
- Assisted in improving internal workflows and digital services for municipal operations

WordPress Vue Laravel

BEEP

IT TECHNICIAN (INTERNSHIP)

Molins de Rei, Spain
September 2018 - March 2019

- Performed computer repairs, hardware diagnostics, and system maintenance
- Provided technical support and troubleshooting for hardware and software issues
- Assisted customers with system configuration and equipment installation

IT Support Hardware Diagnostics System Maintenance

Hotel Casa Peix

WAITER / INTERNAL TOOL DEVELOPER

Serraduy, Spain
Seasonal: July-August
2017-2021
2023-2025

- Provided customer service in a high-volume seasonal hotel environment
- Developed internal tooling for client management using Rust, improving workflow efficiency and operational organization
- Supported day-to-day hotel operations while identifying opportunities for process optimization through software solutions

Rust Customer Service Workflow Automation

Projects (GitHub)

Oboete

PERSONAL PROJECT

Open Source

2024 - Present

- Flashcards application for the COSMIC™ desktop environment developed in Rust
- Designed with a native Linux desktop experience and distributed through Flathub
- Focused on usability, performance, and efficient vocabulary learning workflows

Rust COSMIC Desktop Development

Cedilla

PERSONAL PROJECT

Open Source

2026 - Present

- Markdown text editor for the COSMIC™ desktop environment
- Implemented a clean writing-focused interface with markdown editing capabilities
- Distributed publicly through Flathub for Linux users

Rust COSMIC Markdown Desktop Development

Delphinus

PERSONAL PROJECT

Open Source

2023 - Present

- Tool for generating Japanese and Chinese vocabulary flashcards compatible with Anki, Quizlet, and Vaia
- Implemented OCR support for extracting vocabulary directly from images and documents
- Developed using Rust and Go with focus on language learning automation

Rust Go OCR ML Web Development Self-Hosting Docker

OpenPillReminder

PERSONAL PROJECT

Open Source

2026 - Present

- Open-source lady pill reminder and tracking application for Android
- Focused on accessibility, privacy, and user-friendly health tracking
- Implemented scheduling and notification systems using Kotlin

Kotlin Android

Cocookies

PERSONAL PROJECT

Open Source

2024 - Present

- Self-hostable recipe management platform built with Leptos
- Developed features for recipe organization, storage...
- Focused on lightweight architecture and self-hosted deployment

Rust Leptos Web Development WASM Self-Hosting

StarryDex

PERSONAL PROJECT

Open Source

2024 - Present

- Pokédex application for the COSMIC™ desktop built with Rust
- Integrated Pokémon data APIs and designed a responsive native desktop interface
- Distributed publicly through Flathub for Linux users

Rust COSMIC API Integration Desktop Development

Clockode

PERSONAL PROJECT

Open Source

2025 - Present

- TOTP authentication client developed with Rust and Iced
- Implemented secure token generation and account management features
- Published on Flathub for Linux desktop users

Rust Iced Desktop Development

Kantan

PERSONAL PROJECT

Open Source

2026 - Present

- Open-source Japanese dictionary and learning application for Android
- Designed educational features focused on vocabulary lookup and language acquisition
- Developed natively using Kotlin and Android technologies

Kotlin Android Language Learning

Socios Peix

PROJECT

Open Source

2025 - Present

- Web application for managing hotel members and customer information
- Implemented features for email communication, Excel export, and administrative workflows
- Built with a Spring Boot backend and a Vue Frontend

Java (Spring) Vue Web Development Business Management Docker

Skills

Languages Spanish (Native) | Catalan (Native) | English (Professional Proficiency - C1) | Japanese (Intermediate - B1/B2) | Chinese (Elementary - A2)

Tech Stack Rust | Go | C# | Java | JavaScript | HTML5 | CSS3 | .NET | Blazor | Vue.js | Tailwind CSS | PostgreSQL | MySQL | Microsoft SQL Server | Git | Docker | Linux

Personal Interests Table Tennis | Language Learning | Reading | Programming

Other

HackEPS 9th Edition

BONÀREA CHALLENGE — 2ND PLACE

Lleida, Spain

November 2025

- Secured second place in the hackathon for the challenge proposed by BonÀrea
- Developed code interfacing with a Siemens PLC using S7 and OPC protocols
- Solved various industrial automation challenges within the competition timeframe

PLC S7 OPC Industrial Automation

HackUPC 12th Edition

INDITEXTECH CHALLENGE

Barcelona, Spain

April 2026

- Solved the challenge proposed by InditexTech focused on automated warehouse systems
- Developed optimization algorithms for real-time box allocation and retrieval in a 3D grid
- Minimized shuttle travel time and improved throughput via intelligent palletization strategies

Algorithms Optimization Warehouse Automation