

Carlos Muñoz Ledesma

.NET Software Engineer

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EU citizen

PROFESSIONAL SUMMARY

- **.NET Software Engineer with 8+ years of experience** designing, building, modernising and supporting secure, scalable enterprise applications and APIs, in both on-site and fully remote teams. Strong C# and modern .NET background (.NET Framework through .NET 10) with hands-on ownership of the full lifecycle – requirements, architecture, data modelling, automated testing, CI/CD, deployment and production support.
- **A backend-focused full-stack engineer:** most of my work is server-side (ASP.NET Core, Web API, EF Core, SQL Server), complemented by server-rendered frontends (Razor Views, JavaScript, Bootstrap). I take ownership end-to-end and enjoy making large or legacy codebases safe to evolve through Clean Architecture, SOLID, CQRS and automated testing.
- **Build AI-enabled features into production software**, including LLM / GPT-powered features (backed by a Master's in AI & Data Science). I use AI assistants daily for coding, refactoring, testing and documentation, with a pragmatic view that generated code must always be read, reviewed and tested – never trusted blindly.
- **Hands-on with Microsoft Azure** (Functions, Service Bus, Blob Storage, DevOps CI/CD), event-driven and background services, and legacy .NET Framework / WinForms modernization toward modern .NET. I also build and operate my own live SaaS product end-to-end and code regularly outside of work.

WORK EXPERIENCE

Software Engineer (.NET / Full-Stack)

JAN 2023 – NOV 2025

TFO Group, Dublin (Remote), Ireland – Cloud-hosted ERP & CRM platform, Agile cross-functional team

- Built and evolved TFO Group's cloud-hosted ERP and CRM platform – a core system supporting sales, finance, marketing and operations across multiple regions – hands-on in both architecture and coding.
- Designed and delivered an AI-powered campaign-creation workflow, integrating GPT models to cut campaign setup from around a week of manual work to roughly a day.
- Architected and maintained the ERP / CRM platform with real-time EPOS integrations and asynchronous messaging via Azure Service Bus, applying event-driven patterns across distributed components.
- Developed and maintained the platform using C#, ASP.NET Core (MVC, Razor Views) and SQL Server, applying CQRS to separate read and write workflows in business-critical modules.
- Designed and integrated secure RESTful APIs and Web Services with enterprise platforms; implemented CRM features with Entity Framework Core, LINQ, T-SQL and SQL Server stored procedures, and built modular UI components in JavaScript.
- Built background / serverless components with Azure Functions and managed file storage with Azure Blob Storage, producing cloud-ready application components.
- Delivered AI-enabled features including chatbot solutions with Microsoft Bot Framework and their backend integrations, adding conversational self-service.
- Owned CI/CD pipelines in Azure DevOps and wrote unit tests with xUnit; helped introduce agile practices, improving delivery speed, reliability and code quality.

Software Engineer (.NET)

JUL 2019 – JUN 2022

Gestión de Emergencias, Mallorca, Spain – Mission-critical desktop & mobile systems for public safety

- Maintained and enhanced PoliciaXPO, a mission-critical application used daily by police and emergency services, built with C#, WinForms, SQL Server, DevExpress.
- Worked on a legacy .NET Framework codebase with Windows-specific dependencies – the hands-on legacy experience that underpins my later modernization work.
- Developed a mobile application with Xamarin for emergency management in the field.
- Integrated Web Services for interoperability with external systems, and used Azure DevOps & Azure Blob Storage for deployment and collaboration.

Software Engineer (.NET)

AUG 2017 – MAR 2019

Dimática (client: Banca March), Mallorca, Spain – Regulated banking / financial-services environment

- Worked on-site for Banca March, a Spanish bank, within its Efficiency and Processes department – a regulated financial-services environment – automating manual cross-department workflows.
- Resolved incidents and delivered new features using C#, VB.NET, SQL Server, Access, and Excel, working within the bank's processes and controls.

Junior Software Engineer (.NET)

JUL 2016 – AUG 2017

AT4, Mallorca, Spain – Web applications & public-sector sites

- Built web applications and REST APIs with C# and SQL Server using MVC architecture, with Entity Framework, Razor Views, and Git.
- Contributed to public-facing websites such as Emaya (public sector) using Umbraco CMS, with responsive frontends in HTML5, CSS, JavaScript, Bootstrap.

Software Engineer Intern (.NET)

MAR 2016 – JUN 2016

Logitravel, Mallorca, Spain

- Created a SEM error-viewer web application for the Digital Marketing department using C# and SQL Server with MVC architecture, working in Scrum with Jira.

SOFTWARE PROJECTS

Reservaki – multi-tenant SaaS platform (reservaki.es)

DEC 2025 – PRESENT

Live product, Remote – Solo, end-to-end; backend-focused full-stack on ASP.NET Core 8

- Reservaki is a multi-tenant SaaS platform for online appointment booking aimed at small service businesses in Spain (hairdressers, barbers, beauty and massage centers) – built and deployed end-to-end, from architecture to operations.
- Designed multi-tenancy via URL path with optional custom domain support, using a shared database with EF Core global query filters to guarantee tenant data isolation.
- Implemented CQRS using MediatR to separate command and query workflows, with FluentValidation for request validation.
- Enforced Clean Architecture across four projects with automated architecture tests (NetArchTest), preventing dependency-rule violations from reaching the main branch.
- Modelled the relational schema (tenants, bookings, services, staff, availability) in SQL Server 2022 with EF Core 8, defining tables, relationships and the models in both database and code.
- Wrote unit tests with xUnit and FluentAssertions covering core business logic, enabling safe and frequent refactoring.
- Built a server-rendered MVC frontend with Razor Views, Bootstrap 5.3, vanilla JavaScript, and FullCalendar for interactive scheduling; used ASP.NET Identity for authentication. Stack: ASP.NET Core 8, C# 12, EF Core 8, SQL Server 2022.

Salty Summer Mallorca – paid client website (saltysummermallorca.com)

JUL 2026

Commissioned client work – Delivered & live in production; solo, ASP.NET Core / .NET 10

- Designed, built and shipped a commissioned business website for a boat-rental company – a paid client brief delivered to deadline and now live in production.
- Built a multi-language (EN / ES / DE) site with ASP.NET Core MVC on .NET 10, including fleet catalogue pages, an enquiry/booking form and SEO metadata.

EDUCATION

Master's Degree in Intelligent Systems

2019 – 2021

University of the Balearic Islands, Spain

Specialization: Artificial Intelligence and Data Science

IT SKILLS & LANGUAGES

- **Languages & Frameworks:** C# (.NET Framework, .NET Core / .NET 6–10), ASP.NET Core, ASP.NET Core Web API, JavaScript, VB.NET, SQL.
- **Backend & APIs:** RESTful API design & integrations, Web Services, background / serverless services, Entity Framework Core, LINQ, API security (authentication & authorization).
- **Architecture & Design:** Clean Architecture, SOLID principles, CQRS (MediatR), Object-Oriented Design (OOP), design patterns, monolithic & layered design, event-driven patterns, legacy modernization (.NET Framework modern .NET).
- **Data:** SQL Server, T-SQL, stored procedures, relational data modelling (tables, relationships, models in database and code), query optimisation, Entity Framework Core (ORM).
- **Testing:** xUnit, FluentAssertions, NetArchTest (unit testing, refactoring, architectural rule enforcement), code reviews / peer review.
- **Frontend:** Razor Views, HTML5, CSS3, JavaScript, Bootstrap, FullCalendar.
- **Cloud & DevOps:** Microsoft Azure (Azure Functions, Azure Service Bus, Azure Blob Storage), Azure DevOps, GitHub & Git-based workflows, CI/CD pipelines, Docker, IIS, Windows Server.
- **Security & Identity:** ASP.NET Identity, authentication & authorization, secure engineering practices; foundational awareness of OAuth / identity flows.
- **AI & Chatbots:** MSc in AI & Data Science; conversational systems with Microsoft Bot Framework; GPT integration; daily use of AI assistants for coding, refactoring, testing and documentation, with responsible review of generated code.
- **Methodologies & Practices:** Agile / Scrum, full software development lifecycle, cross-functional and remote team collaboration.
- **Languages:** Spanish (Native), English (Professional working proficiency), Thai (Basic).

BEYOND WORK & INTERESTS

- **Software projects:** I design, build and run live applications on modern .NET (Reservaki on .NET 8; my portfolio and a client site on .NET 10), applying the architecture and testing practices I value in production work.
- **Portfolio site:** carlosmunozledesma.com – a live personal site built and deployed on ASP.NET Core 10 MVC (multi-language), doubling as a working example of my current stack.
- **GitHub:** github.com/carlosmunozledesma – public C# repositories plus private work including Reservaki (.NET 8 SaaS with Clean Architecture, CQRS and automated tests) and Salty Summer Mallorca, happy to walk through on request.
- **Interests:** running, and board games / trading card games.