

MANUEL BERNABÉ RODRÍGUEZ

BACKEND SOFTWARE ENGINEER (.NET)

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PROFESSIONAL SUMMARY

Backend developer specializing in C# and .NET, with approximately two years of professional experience developing and maintaining enterprise applications. Experienced in designing and implementing REST APIs, integrating external services, and building backend solutions used in production. I hold a Bachelor's Degree in Computer Engineering and a Master's Degree in Software Engineering. I complement my professional experience with projects involving software architecture, distributed systems, testing, and deployment automation, with a particular interest in designing maintainable and scalable systems.

PROFESSIONAL EXPERIENCE

.NET Software Developer

September 2024 - May 2026

VERTEBRA GESTIÓN

Murcia, Spain

- Designed and implemented a centralized REST API using ASP.NET Core to integrate multiple enterprise invoicing applications with VeriFactu and the Spanish Tax Agency (AEAT), deployed and used in production.
- Developed a reusable .NET client library from an OpenAPI specification, centralizing contracts, models, and API communication to simplify integration across different ERP applications.
- Implemented invoice persistence and status tracking, along with a background service to recover pending operations. Optimized processing by leveraging the batch submission capabilities of a third-party library.
- Implemented client authentication and access control, and integrated Azure Key Vault for encryption key management and temporary use of digital certificates.
- Developed unit tests using xUnit and integration tests, automating their execution through Azure DevOps pipelines.
- Performed corrective and evolutionary maintenance on ERP applications using .NET, WinForms, and SQL Server, adding features, resolving issues, and improving code maintainability.

Software Development Intern

April 2024 - August 2024

VERTEBRA GESTIÓN

Murcia, Spain

- Developed new features and forms for enterprise applications using C#, WinForms, and SQL Server, implementing business logic and data persistence.
- Investigated and resolved issues in existing applications, working with code written by other developers and improving its readability and maintainability.

EDUCATION

University of Murcia

September 2025 - June 2026

Master's Degree in Software Engineering

Final grade: 9.5/10. Specialized education in software architecture, distributed systems, design patterns, software quality, and automation.

University of Murcia

September 2021 - July 2025

Bachelor's Degree in Computer Engineering | Specialization in Software Engineering

Final grade: 7.4/10. Education in programming, application design and development, databases, and software engineering fundamentals.

PROJECTS

SolidarianID github.com/fsoladur/SolidarianID

Software Developer – Academic Team Project

Volunteer and charitable causes management platform developed as a team project during the Master's Degree in Software Engineering. Built using a microservices architecture, incorporating technologies such as Kafka, GraphQL, MongoDB, PostgreSQL, and Event Sourcing.

Personal Portfolio github.com/elmanueh/website elmanueh.es

Software Developer – Personal Project

Personal portfolio built with Astro, showcasing my professional experience, education, and software projects. Designed as a central hub for my professional profile, providing easy access to my work, technologies, and code repositories.

SKILLS & LANGUAGES

Technical Skills:

C# .NET ASP.NET Core REST APIs API Design OpenAPI Swagger
Entity Framework Core SQL SQL Server PostgreSQL MongoDB Authentication
Authorization Azure Key Vault Background Services Asynchronous Processing
Software Architecture SOLID Principles Domain-Driven Design (DDD)
Layered Architecture Design Patterns Microservices Domain Events MediatR
Event Sourcing KurrentDB Unit Testing Integration Testing xUnit
Testcontainers Docker GitHub Actions Azure DevOps Ansible

Languages:

Spanish: Native English: Intermediate (Technical)