

Nicolás Barceló Lozano

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A professional with more than 25 years of experience in designing and developing innovative technological solutions. My expertise focuses on implementing projects using .NET and C#, encompassing the creation of APIs, document management, and process automation (RPA). In recent years, I have steered my career towards artificial intelligence, applying Python for data recognition and natural language processing (NLP), as well as leading quality prediction initiatives in industrial processes.

PROFESSIONAL EXPERIENCE

Tecnomedia Sistemas

Data and Documentation Technology Specialist

Barcelona, Spain

Nov 2002–Present

- Development of document management applications using .NET with C# and SQL Server.
- Creation of desktop applications in C# (WinForms, WPF) for data extraction, recognition, and entry into document management systems, CRM, and ERP.
- Implementation of process automation solutions using C# and Python.
- Integration of web APIs with other systems (Minimal API, FastAPI).
- Design and optimization of document workflows, including digitization, indexing, and data capture, using third-party libraries and Azure AI.
- Development of barcode recognition, OCR, and ICR solutions for industrial processes.
- Leadership of quality prediction projects in the chemical industry.
- Development of content-based text classification applications (NLP).

NexTReT

Programmer - Analyst Programmer

Barcelona, Spain

Dec 2000 - Nov 2002

- Consulting, development, implementation, and maintenance of technological solutions.
- Development of desktop applications in Visual Basic 6.0 and SQL Server for the document management of an international insurance company.
- Creation of an ASP application with VBScript and SQL Server for client management in a consultancy firm.
- Development of a payroll and human resources management solution using PowerBuilder.

Datasix Sistemas

Consultant

Barcelona, Spain

Oct 1999 - Dec 2000

- Design, development, and implementation of Business Intelligence projects.
 - Customization and implementation of query, reporting, and office integration tools using VBA.
 - Design of multidimensional analysis applications and EIS systems with Visual Basic 6.0.
 - Development of Datawarehouse and Datamarts on SQL Server.
 - Training and certification of users in BI tools.
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EDUCATION

UNIVERSITAT DE BARCELONA

Bachelor's Degree in Physics

Barcelona, Spain

Jun 1999

IEBS Business School

Master's in Data Science and Big Data

Barcelona, Spain

Nov 2022 - Sept 2023

CERTIFICATIONS

- Tensorflow developer certificate (2024)
- AZ-900 Azure Fundamentals
- AI-900 Azure AI Fundamentals
- PCEP-30-02 – Certified Entry-Level Python Programmer
- PCEP-31-03 – Certified Associate in Python

LINKS

- [Microsoft Learn Profile](#)
- [GitHub](#)
- [Hugging Face](#)

SKILLS

- Languages: Native Spanish and Catalan; Professional proficiency in English.
- Programming: C#, VB.NET, WinForms, WPF, Web API, Minimal API.
- Cloud: Azure Functions, Azure AI.
- Containers: Docker.
- Artificial Intelligence and Machine Learning: Python, Scikit-learn, TensorFlow, Streamlit, YOLO.
- Databases: SQL Server, Access.
- Prompt Engineering.