Federico Di Luca

Technical Leader | .NET Development

Details
federico.diluca95@gmail.com

61121, Pesaro (Italy)
+39 3388100625

Links
Personal website
LinkedIn
Github

Languages
Italian, English

Certificates
IELTS English 7.0 (C1)

Profile

Passionate .NET Development Technical Leader and Computer Science Teacher in High School. Graduated with honors in Electronic and Telecommunications Engineering from the University of Bologna. Experienced in leading backend development for Marketing and E-commerce projects, I drive innovation and excellence within the R&D team. Skilled in coding best practices and clean architecture principles, I thrive in dynamic teams and deliver high-quality, scalable solutions.

Employment History

Computer Science Teacher - Liceo Scientifico Torelli Pergola

September 2024 - Present

Tasks | Teaching computer science to high school students, covering topics such as algorithms, programming, and database management. Prepare lesson plans, provide hands-on lab exercises, and evaluate student progress.

Key Contributions | Foster critical thinking and problem-solving skills in students. Develop engaging educational content and implement modern teaching methodologies. Guide students in developing practical projects in programming and database management.

STEM Expert Trainer - DM65

Academic Year 2024–2025

Courses taught | Python for Data Analysis and Numerical Computing, Python Coding, Data Analysis with Spreadsheets.

.NET Technical Leader - Websolute

May 2021 - December 2024

Tasks | Lead backend development, provide technical support, ensure high performance, and implement innovative solutions. Manage project setups, versioning, deployments, and testing. Collaborate on presale projects, adhering to security and GDPR guidelines.

Key Contributions | Lead architectural design, ensuring scalable solutions. Write efficient, testable code, and integrate data from various back-end services.

Main Technologies | C#, ASP.NET, .NET Core, Razor Pages, MVC, JavaScript, jQuery, Bootstrap, .NET Framework, SQL Server, SSMS, Visual Studio, VS Code, Postman, Swagger.

Others | Git, TFS, Docker, MongoDB, TypeScript, React, NextJs, Payload CMS, Azure, Modular Monolith, Microservices, DDD, RESTful APIs, CI/CD pipelines, DevOps.

.NET Automation Development - NGTEC

January 2020 - April 2021

Tasks | Definition of technical requirements, software development and testing, on-site and remote assistance. Good code practices, organisational skills, ability to work in teams and independently, direct contact with customers and focus on tailored solutions are also key.

Main Technologies | C#, .NET Framework, WPF, XAML, Git, SqlServer, MySql.

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Education

Electronic and Telecommunications Engineering, University of Bologna
September 2017 - December 2019
2-year Master's Degree (110 L / 110).
Thesis : "UWB Signals Analysis for Human Being Detection Based on Deep Learning Algorithms".

Biomedical Engineering, University of Bologna
September 2014 - July 2017
3-year Bachelor's Degree (109 / 110).
Thesis : "Software Development for the Posture Analysis through Dynamometric System acquired Data".

International Experience

Erasmus, Barcelona
September 2018 - February 2019
6-month Erasmus experience at the Universitat Polytècnica de Catalunya during my Master's Degree in Electronic Engineering.

Publications

Human Being Detection from UWB NLOS Signals: Accuracy and Generality of Advanced Machine Learning Models
Gianluca Moro, Federico Di Luca, Davide Dardari, Giacomo Frisoni
February 2022
Journal and Editor: Sensors, MDPI - Read the paper

Hard Skills

- *Programming Languages & Frameworks* : C#, .NET Core, .NET Framework, ASP.NET MVC, Blazor, JavaScript, TypeScript, Python
- *Databases* : SQL Server (SSMS), MySQL, MongoDB
- *Tools & Platforms* : Visual Studio, VS Code, Docker, Postman, Swagger, Git, TFS
- *DevOps* : CI/CD pipelines, Azure, IIS Server
- *Testing* : XUnit, NUnit, Moq
- *Frontend* : HTML, CSS, JavaScript, jQuery, Bootstrap, Razor Pages, React, Next.js
- *Others* : Spectre Console, Microsoft Identity, Hangfire, Coravel, ADO.NET, Entity Framework, MATLAB