

Nelson Nobre

Software Architect | Software Engineer | Developer

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SUMMARY

Specializing in .NET/C#, I bring strong expertise to cloud solutions across sectors like FinTech, Sim Racing, and Tourism. My approach includes a rigorous study and application of algorithms, data structures, and design patterns, aiming for robust and high-quality solutions. I'm committed to software excellence, prioritizing unit, integration, and performance testing to ensure the delivery of reliable projects. Adapting easily to various technologies, including Python, TypeScript, Java, and JavaScript, I actively share my knowledge with the community and lead teams and projects to foster innovation.

EXPERIENCES

Software Architect

VFXPLC - Fintech

PT/UK February 2024 - Present

- Designed the architecture for legacy system modernization, preparing for scalability in the cloud.
- Ensured continuous operation, enhanced third-party integrations, and updated development practices and documentation.

Stacks:

C#/.NET Azure GitHub System Design Microservices CosmosDB Redis ServiceBus
Docker REST API Azure Functions

Software Architect / Backend Developer

Fidgrove - Sim Racing

PT November 2021 - January 2024

- Designed the architecture and contributed to the backend development for a real-time sim racing platform, focusing on efficiently handling high volumes of data.
- Crucial in taking a concept to a market-validated MVP, establishing a scalable and expandable product foundation.
- Assisted in implementing DevOps practices, including pipelines, observability, and monitoring, with a cloud-first approach.

Stacks:

C#/.NET Docker Azure DevOps Microservices Kafka MySQL Cassandra Grafana
Loki Tempo Prometheus WebSockets REST API Windows App WPF Azure Java

Software Architect / Backend Developer

Mochila - Travelling

PT/ES January 2021 - January 2023

- Instrumental in bootstrapping and evolving the idea into an MVP, architecting the entire solution.
- Implemented the project in the cloud, setting up DevOps policies, monitoring, and observability to ensure operational efficiency.
- Translated business needs into effective software solutions, serving as the lead technical figure for the project.

Stacks:

C#/.NET AWS GitHub Docker MySQL MongoDB RabbitMQ CloudWatch
WebSockets REST API Lambda Functions S3 AWS Cognito AWS Fargate

SKILLS

Languages & Frameworks

C#/.NET SQL JavaScript
Python TypeScript Vue.js
Nuxt.js HTML CSS Bootstrap

Team Work

Agile Team Leadership

Coding Skills

Algorithms Data Structures
Design Patterns Clean Code
SOLID

Database

MySQL MSSQL Redis MongoDB
DynamoDB Cassandra Postgres

Messaging

RabbitMQ Kafka ServiceBus

Cloud computing & Infrastructure

AWS Azure Docker Nginx

DevOps

Git Azure DevOps GitHub
GitHub Actions Terraform
BitBucket Subversion CI/CD

Observability

Grafana Prometheus
OpenTelemetry Loki Jaeger
Tempo CloudWatch

Tools

Visual Studio Visual Studio Code
SonarQube SonarCloud Jira
Confluence

Backend Developer / Team Leader

Positive Slice - Fintech

PT 📅 October 2013 - November 2021

- Team management, SRS, Code Review, Backend development and microservices, integration with 3rd parties.
- Strangled a legacy system and modernized the infrastructure to support scaling and expand into new markets.

Stacks:

C#/.NET

REST API

On-premise

SOAP

SVN

MySQL

WCF

IIS

Windows Services

Windows Server

EDUCATION & CERTIFICATIONS

Certifications

- DevOps Engineer Expert (Microsoft)
- AZ-400 (Microsoft), AZ-204 (Microsoft), AZ-900 (Microsoft)
- GitHub Foundations
- GitHub Actions
- Foundational C# with Microsoft (FreeCodeCamp)

Bachelor's Degree in Computer Science

Portimão, PT 📅 October 2010 - July 2013

- **Grade:** 16/20
- **Thesis Subject:** Real-Time gesture recognition for Robot Interaction. 20/20

PROJECTS & CONTRIBUTIONS

Host and Co-founder

Craft & Code Club

📅 2013 - Present

A Community/study group with 500+ members focused on software development, where we discuss and share knowledge about software development techniques, design patterns, and new technologies.

- Series - Algorithms and Data Structures From Zero to Hero
- Book Club - System Design Interview
- Book Club - Learning Driven Design

📺 youtube.com/@CraftCodeClub 🗣️ meetup.com/craft-code-club
🔗 github.com/craft-code-club

C#/.NET libraries (nugets)

PowerUtils

Open-source libraries to help in C#/.NET development.

📦 nuget.org/profiles/TechNobre 🗣️ github.com/TechNobre

Blogs and articles

I regularly publish articles on development and code examples showcasing approaches and coding techniques.

🗣️ nelsonbn.com/blog 🗣️ github.com/NelsonBN

Tests

Unit Tests

Integration Tests

Load Tests

Mutation Tests

TDD

Test Patterns

K6

Communication Protocols

HTTP

REST

SOAP

gRPC

MQTT

WebSockets

Server-Sent Events

Paradigms, Systems Design and Architecture

DDD

Monolithics

Microservices

Distributed System

Event Driven Architecture

CQRS

Clean Architecture

Hexagonal Architecture

The Twelve-Factor App

FaaS

SO

Windows

Linux

LANGUAGES

Portuguese (Native)

English (Intermediate)

PREFERENCES

- **Remote Work:** Open / Yes
- **Remote Work:** Willing / Yes