Nelson Nobre

Software Architect | .NET & C# Specialist | Microsoft MVP

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



ACHIEVEMENTS



SKILLS

Languages & Frameworks

C#/.NET SQL

JavaScript/TypeScript

Vue.js/Nuxt.js Python C/C++

CSS Bootstrap Tailwind

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

Azure AppContainers

DevOps

Git GitHub GitHub Actions

CI/CD Azure DevOps Terraform

BitBucket Subversion

Backend Developer / Team Leader

Positive Slice - Fintech

- 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:



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)
- Getting Started with OpenTelemetry (LFS148)

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

A Community/study group with 1000+ 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
 craftcodeclub.io
 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

Observability



Tools



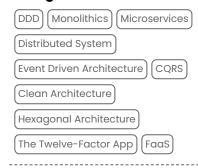
Tests



Communication Protocols



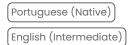
Paradigms, Systems Design and Architecture



SO



LANGUAGES



PREFERENCES

• Remote Work: Open / Yes