Nelson Nobre

Software Architect | Software Engineer | Developer

■ me@nelsonbn.com 📞 (+351) 963 246 728 👂 Portimão, Faro, Portugal



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

- 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)

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 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

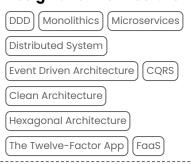
Tests



Communication Protocols



Paradigms, Systems Design and Architecture



SO



LANGUAGES

Portuguese (Native)

English (Intermediate)

PREFERENCES

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