Nelson Nobre

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

🌐 nelsonbn.com   in linkedin.com/in/nelsonbn   ⌗ github.com/NelsonBN

✉ 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`

ACHIEVEMENTS

Microsoft MVP — Most Valuable Professional

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` `AWS` `Docker` `Azure AppContainers`

DevOps

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

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)
- 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.

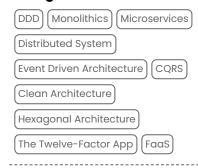🔗 nelsonbn.com/blog 🔗 github.com/NelsonBN

Observability

`OpenTelemetry` `Grafana` `Prometheus` `Loki` `Jaeger` `Tempo` `Pyroscope` `Application Insights` `CloudWatch`

Tools

`Visual Studio` `Visual Studio Code` `SonarQube` `SonarCloud` `Jira` `Confluence`

Tests

`Unit Tests` `Integration Tests` `Load Tests` `Mutation Tests` `TDD` `Test Pattens` `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