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/C`

Observability

`Grafana` `Prometheus` `OpenTelemetry` `Loki` `Jaeger` `Tempo` `CloudWatch`

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

Microsoft Certifications

- DevOps Engineer Expert
- AZ-400 AZ-204 AZ-900

GitHub Certifications

- GitHub Foundations

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

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
- **Remote Work:** Willing / Yes