Alberto Roque Carrizo Fernández

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Introduction

I am an experienced software engineer with a pragmatic approach, valuing simplicity in solutions. Highly independent and adept at self-learning, I seek opportunities to deliver genuine value to clients and society. Currently I develop Windows desktop applications at Metrohm DropSens.

Skills

`.NET` `C#` `Azure` `SQL` `WPF` `Elasticsearch` `Redis` `Git` `Docker` `Microservices` `GraphQL` `Powershell` `JavaScript`

Experience

Feb 2024 - Present · **Software Engineer** at Metrohm DropSens (Precision instruments for chemical analysis)

- Developing and maintaining components for highly reliable enterprise Windows application.
- Designing Windows desktop UI features using event-driven reactive programming.
- Leading efforts to introduce ELK monitoring solution via workshops and POC implementation.
- Using `.NET` `C#` `WPF` `SQL` `DDD` `SpecFlow` `Scrum` `ELK` `gRPC` `MVVM` `UI` `Rx.NET`

Sep 2018 - May 2022 · **Senior Backend Engineer** at NEOCLES (B2B e-commerce platform for fashion)

- Designed and built high-performance e-commerce APIs for thousands of concurrent users.
- Managed releases and maintenance for 5 segregated client production environments.
- Developed backend services receiving 10M+ import messages daily from external systems.
- Led upgrade and configuration of 30+ Elasticsearch servers, saving thousands of euros monthly.
- Worked directly with clients conducting fit-gap analyses to integrate new services and features.
- Used `.NET` `C#` `SQL` `Elasticsearch` `Azure` `Redis` `Docker` `AKS` `Service Bus`.

Jan 2017- Sep 2018 · **Full-stack Developer** at INVESTEL (Fleet management system)

- Led development of an AngularJS management application for internal use.
- Worked with designer on implementation of new Angular frontend for existing application.
- Evolved into a full-stack developer role, addressing bugs and implementing new features in the backend.
- Implemented and documented OAuth service for external client authentication.
- Used `AngularJS` `C#` `SQL` `.NET Framework` `Redis` `Mercurial`.

Projects

Sep 2022 - Present · **Ship Navigation Application** · `WinUI 3` `C#` `.NET`

- Designed and build Windows desktop application based on clients requirements.
- Integrated with Automatic Identification Systems (AIS) via serial port connection.

Mar 2023 - Oct 2023 · **Portfolio Website: roquec.com** · `Jekyll` `JavaScript` `SASS`

- Developed custom JavaScript and SASS styling to imitate Visual Studio Code look and feel.
- Automated deployments, Lighthouse testing and reporting using GitHub Actions and Powershell.

Education

2011 - 2016 · **Bachelor's degree, Computer Software Engineering** from University of Oviedo, Spain.