Serxio Simons Casasnovas

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As a highly accomplished software engineer, I bring over 3 years of expertise in .NET, Go, Angular, Apache Kafka, SQL, DDD, TDD, microservices, REST APIs, and MVC frameworks to the table. Throughout my career, I have continuously delivered impactful contributions to top organizations, setting myself apart as a standout professional in the industry.

I'm seeking growth in all aspects related to the product, from business matters to design and infrastructure development. I value a workspace prioritizing product enhancement via new tech adoption that better meets requirements. Also, keen on learning and improving team and client communication.

Programming languages	Academic context: C/C++, Python, Java, Professional context: C#, Go, TypeScript
Frameworks	.NET, Angular, EMule
Scripting & Automation	Bash, Batch, PowerShell
Databases	SQL : MySQL, PostgreSQL NoSQL : MongoDB
Operating Systems	Linux, Microsoft
Tools	AWS, Apache Kafka, Apache Hadoop, Docker, Atlassian, GitHub, Jenkins
Working methodology	Microservices, DDD, CQRS, TDD, Design Patterns, Agile

MSc	Telecommunications Engineering, University of Vigo	**2021**
BSc	Telecommunications Engineering, University of Vigo	**2019**
Languages	Galician: Native Spanish: Bilingual English: Fluent Portuguese: Fluent	

Experience:

Ryanair Airlines   *Jun 2022 - Present*

Context: Ryanair is one of the main airlines in the world and the largest in Europe, providing low cost flight services to all of Europe, Morocco and Jordan.

Experience:

- Enhanced the development of a Go and .NET microservices-based scheduler for flight crew assignment, **implementing DDD principles to redefine the system**.

- Applied optimization techniques, including request and response compression and API pagination, achieving an exceptional reduction in API REST response times **from 1 minute and 30 seconds to only 6 seconds** for large responses.

- Implemented strategic code optimizations and algorithm enhancements, resulting in a **20% reduction in overall system resource consumption**.

- Leading the migration of part of the business logic to the first AWS Lambdas written in Go within my team, **achieving a significant reduction in overall costs**.

- Collaborated closely with cross-functional teams to design and deploy services and applications across multiple **AWS** regions. **Developed and maintained Jenkins pipelines**, streamlining deployment and testing processes.

- Continuously demonstrated technical excellence and adaptability, **leading discussions on architecture decisions** and proactively proposing improvements to enhance system performance and scalability, such as the migration of part of the business logic to AWS Lambdas and the use of Redis as a database cache.

Marine Instruments   *Dec 2020 - Jun 2022*

Context: Marine Instruments is a company dedicated to the supply of tuna detector buoys to fishing boats. These marine buoys have a probe which, when a school of tuna passes under it, sends a signal to the different fishing vessels or entities associated with it. These final entities can also send remote configuration commands to the buoys. All this message flow is processed, stored and redistributed by a single server, the Iridium Server Mail Protocol (ISMP).

Experience:

- **Designed and implemented a resilient and scalable distributed server architecture** for ISMP, orchestrated through Apache Kafka nodes, to optimize efficiency and reliability, **reaching a message handling capability 4 times higher** than the previous monolithic architecture.

- Led the seamless migration of the main server from .NET Framework to .NET 6, leveraging Entity Core to **enhance system agility, flexibility, and scalability**.

- Implemented Docker containers to **optimize system performance and security**.

Other activities:

UVigo Technological Forum   *2018 - 2020*

Context: The "[Foro Tecnolóxico de Emprego](#)" is an initiative created in 2001 by delegations of students from the Higher Technical Schools of Telecommunications and Industrial Engineers of the University of Vigo, who came together to work on a project that aimed to facilitate the recruitment of future graduates from this university by technological companies, as well as hosting workshops and conferences.

Experience: For a couple of years, I actively collaborated in the UVigo Technological Forum, belonging to the board of directors with the position of coordinator and head of relations.

My job consisted of coordinating the different students who participated as collaborators of the forum, who contacted Galician and international companies to attend the event, as well as being the direct contact between the companies and the Forum.

University Mentor   *2017 - 2019*

Context: The [mentoring program](#) is designed for students in the final years of their degrees, providing over 80 hours of training in skills such as teamwork, communication, and emotional intelligence to enhance the mentors' employability and empower the mentored students, assisting them in the transition from secondary to university education and addressing various needs.

Experience: During the last two years of the degree I collaborated with the telecommunications school as a mentor for the first year students, to guide them in the first months of university.

The role of mentor consisted of having a monthly meeting during the first year in which I advised them on study methods and self-knowledge, as well as being a source of support in their first year.