

# LUIS ÁNGEL LOIS DO NASCIMENTO

## Junior Software Developer

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## EXPERIENCE

06/2024 - 11/2024

León, Castilla y León, Spain

### Desarrollador de Software Júnior

**Titanium Industrial Security S.L.**

- Development of RESTful APIs with C#, .NET, and Entity Framework, supporting advanced queries with OData.
- Implementation of Keycloak for secure and scalable authentication and authorization.
- Configuration of Elasticsearch for complex searches.
- Event management with Kafka for distributed system synchronization.

03/2024 - 05/2024

León, Castilla y León, Spain

### Intern Developer

**Titanium Industrial Security S.L.**

- I improved data integrity by developing comprehensive test cases that covered multiple business scenarios.
- Achieved 90% unit test coverage, ensuring code reliability and robustness.
- Conducted model validations and business rule checks, guaranteeing data consistency and compliance with technical specifications.

## EDUCATION

09/2023 - 05/2024

León, Castilla y León, Spain

### Advanced Diploma in Multiplatform Application Development

**IES San Andrés**

10/2021 - 06/2023

Valladolid, Castilla y León, Spain

### Advanced Diploma in Multiplatform Application Development

**IES San Andrés**

## TECHNICAL SKILLS

### Backend Development C# | ASP.NET

#### Core | Entity Framework

- .NET 8 Migration Project
  - I participated in a team in charge of migrating an enterprise application from .NET 6 to .NET 8, improving stability, performance and compatibility. Responsibilities included:
  - Entity Framework: Refactoring and optimizing LINQ queries to handle large volumes of data efficiently.
  - OData: Implementation of endpoints to enable advanced queries and dynamic filtering, facilitating integration with external clients.
  - Resolution of dependency conflicts during the framework upgrade and adaptation of the code base to the new features of .NET 8.
  - Close collaboration with the frontend team, ensuring that the developed endpoints complied with the user interface requirements and supported complex dynamic queries.

### SQL Database Design and Optimization

- I redesigned and optimized databases in PostgreSQL to improve performance and scalability of enterprise applications. Main activities:
  - Analysis of existing structures and redesign proposal to normalize data and eliminate redundancies.
  - Optimization of key fields, indexes and queries to accelerate response times in a high concurrency environment.
  - Implementation of best practices in relational database management, improving data consistency and integrity.

## Transition from Monolith to Microservices

- I participated in a team in charge of refactoring a monolithic application to a microservices-based architecture, achieving modularity and scalability. Main contributions:
  - Design and implementation of microservices using REST API, ensuring efficient communication between components.
  - Segmentation of the monolith into independent services, optimizing the deployment and maintainability of the system.
  - Close collaboration with the team in the definition of contracts for APIs, ensuring compatibility and ease of integration with external systems.

## Data Processing and Searching

- I collaborated in a project focused on the efficient management of large volumes of data, integrating tools for real-time processing and advanced analytics. Main activities:
  - Apache Kafka:** Configuration and use of pipelines for real-time event processing, improving the system's capacity to handle high-concurrency data.
  - Elasticsearch:** Implementation of indexes optimized for advanced searches, enabling fast queries and efficient analysis of structured and unstructured data.
  - Development of workflows to integrate these technologies with existing applications, ensuring scalability and optimal performance.

## DevOps & Tools

- I contributed to the development and efficient deployment of applications using modern management and containerization tools, as well as in the implementation of authentication and authorization solutions. Main activities:
  - Gitea:** Version management and collaboration using strategies such as branching, code reviews and conflict resolution in collaborative development environments.
  - Docker:** Image creation and container configuration to ensure reproducible environments, facilitating consistent deployments across multiple environments.
  - Swagger y Postman:** Use of Swagger to document **RESTful APIs** clearly and accurately, and Postman to design, test and validate endpoints during development.
  - Keycloak:** Configuration and administration for user and role management in distributed systems. Implementation of role-based permissions and integration of OAuth2 and JWT for secure access and standards-based authentication.

## Methodologies & Practices

- Application of modern methodologies and practices for high quality software development. Main activities:
  - TDD:** Test-driven development, ensuring correct functionality from the earliest stages of the software lifecycle.
  - Pruebas Unitarias:** Creation of comprehensive tests to validate individual components, achieving high coverage and improving code quality.
  - Scrum:** Active participation in agile teams, collaborating in sprints, backlog refinement and retrospectives to improve productivity and meet objectives.