David Lierta Villuendas

Contact

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📍 Zaragoza, Spain

About Me

Experienced Senior Software Engineer with a passion for learning and teaching cutting-edge technologies. Known for leading development initiatives, designing scalable software solutions, and advocating for best coding practices. Excels in a dynamic environment, continuously exploring new technologies and methodologies, and enthusiastically sharing knowledge with peers.

⚙️ Soft Skills

Effective Communication

Leadership and Team Management

Problem-Solving and Critical Thinking

Strategic and Analytical Mindset

Collaboration and Emotional Intelligence

Adaptability and Flexibility

Continuous Learning and Development

Organizational Skills and Time Management

Experience

Senior Software Engineer (January 2023 – Present)
VISMA LABS SPAIN (RAET), MADRID, SPAIN (FULL REMOTE)

Domain APIs Project

- Working in Domain APIs project, focusing on the development, maintenance, and optimization of a robust, distributed microservices-based solution, processing millions of messages daily using Domain-Driven Design (DDD) principles.
- Designed and implemented ETL solutions for efficient data extraction and processing, employing technologies like .NET, Kubernetes, and RabbitMQ, resulting in a significantly optimized BFF for data access.
- Collaboratively worked with the team's architect on defining and implementing scalable architecture for both new features and improvements to the existing solution, utilizing Terraform and Azure for infrastructure optimization.
- Played a key role in drastically improving the ETL process efficiency, reducing data processing time by up to 200 times and achieving substantial cost reductions, through innovative approaches in asynchronous service communication and incremental data processing.
- Led the design and development of a generic Recruitment API, facilitating dynamic connections with Visma Raet's major UI services, and incorporating KEDA and Helm for enhanced scalability and deployment.
- Instrumental in redefining our architectural framework to enable efficient internal service consumption by other Visma teams, ensuring a reliable and scalable system.
- Assumed the role of Infrastructure Engineer, significantly enhancing Azure-based infrastructure and Kubernetes setups, and refining CI/CD processes with Azure DevOps and Kustomization.
- Developed an auto-scaling solution for pipeline agents based on Kubernetes and KEDA, tailored for high-throughput and specific task functionalities.
- Provided team mentoring alongside the architect, focusing on various technologies and architectural changes, playing a crucial role in facilitating team growth and technology adoption.
- Actively collaborated with the QA team to enhance and optimize their testing suite, focusing on the implementation of Python and Behave. This initiative significantly improved test efficiency and reliability.

Senior Software Engineer (September 2022 – January 2023)
KABEL / AVANADE, MADRID, SPAIN (FULL REMOTE)

SGS Project

- Engaged as a Senior Software Engineer to spearhead a Proof of Concept (PoC) for SGS, setting the stage for Kabel's potential partnership with the company.
- Led the design and implementation of the first phase of the new enterprise architecture, enabling generic integration across all services utilizing Azure API Management and an internal framework for diverse application types.
- Worked in close collaboration with the SGS architecture team in defining and establishing the new architecture.
- Conducted in-depth analysis of requirements from various teams participating in the PoC, ensuring the solution's effectiveness and alignment with tester feedback.
- Instrumental in the development and standardization of frameworks for general use across all teams.
- Successfully completed the PoC independently, validating its success and setting a strong foundation for future development.
- Provided mentoring and guidance to the new development team tasked with the ongoing development and maintenance of the solution.
- Focused on Azure-based development, innovating a generic solution for CI/CD applications in Azure Management API using ApiOps, Bicep, and Azure DevOps.
- Utilized .NET and Liquid extensively for the definition and implementation of workflow processes.

Software Engineer (July 2021 – September 2022)
VISMA LABS SPAIN (RAET), MADRID, SPAIN (FULL REMOTE)

MyYouforce Project

- Developed and maintained the main client HR process portal, focusing on backend and frontend microservices using .NET and Angular.
- Handled SQL and NoSQL database development and maintenance in Azure, along with Azure functions and WebApps.
- Performed DevOps roles, implementing CI/CD using Azure DevOps pipelines, Docker, Kubernetes, and Terraform.

Domain APIs Project

- Contributed to the development and maintenance of a solution based on backend microservices in .NET within Azure.
- Assisted in defining the design and implementation of the foundations of the new architecture, including a BFF solution based on DDD (Domain-Driven Design) and clean architecture principles.
- Performed Agile lead substitution functions, overseeing project management and team coordination."
- "Managed SQL and NoSQL databases in Azure, including Azure functions and WebApps.
- Applied CI/CD practices using Azure DevOps pipelines, Docker, Kubernetes, and Terraform.

Education

Applications Development Higher Technical Certificate
CPIFP Los Enlaces, Zaragoza, Spain
2017-2019

Animation 3D, Games and Interactive Environments Higher Technical Certificate
CPIFP Los Enlaces, Zaragoza, Spain
2015-2017

Bachelor of Science
IES Benjamín Jarnes, Fuentes de Ebro, Spain
2013-2015

Certifications

Microsoft CERTIFIED — AZURE AI FUNDAMENTALS ★
Microsoft CERTIFIED — AZURE DATA FUNDAMENTALS ★
Microsoft CERTIFIED — AZURE FUNDAMENTALS ★

ORACLE ACADEMY — Award of Course Completion — Java Fundamentals — Presented to Liana Villuendas, David
ORACLE ACADEMY — Award of Course Completion — Database Design and Programming with SQL — Presented to Liana Villuendas, David
ORACLE ACADEMY — Award of Course Completion — Database Programming with PL/SQL — Presented to Liana Villuendas, David

CERTIFICATION — CertiProf Professional Knowledge — SCRUM FOUNDATION — SFPC

Languages

English ●●●●●●●●○○

Spanish ●●●●●●●●●●

Other Information

- **Prompt Engineering Freelance:** In my free time, I engage in creating and selling ChatGPT prompts on various platforms, showcasing my innovative use of AI technology and entrepreneurial spirit.
- **Continuous Learning:** Committed to professional development with training courses in Microsoft technologies, Deep Learning, and OpenAI frameworks, staying ahead in the fast-evolving tech landscape.
- **Erasmus+ Program Participation:** Actively involved in the Erasmus+ program, representing CPIFP Los Links at national events, showcasing my ability to engage in diverse cultural and educational environments.
- **Educational Outreach:** Conducted orientation talks for high school and cycle students, demonstrating my skills in communication and mentorship.
- **Programming Tutor for Classmates:** Provided programming tutoring to my classmates while studying, highlighting my ability to share knowledge and assist peers in a complex subject.
- **Private Tutor:** Worked part-time as a tutor, assisting primary and secondary school students with their studies, reflecting my commitment to education and support for student learning.
- **Youth Soccer Coach:** Dedicated four years as a part-time coach for a children's soccer team, highlighting my leadership, team management, and motivational skills.

Experience

Software Developer (September 2019 – July 2021)
HIBERUS ADVANCED SOLUTIONS SL, ZARAGOZA, SPAIN

Hiberus BIM Project
- Developed and maintained a Digital Integral Management Solution within the Construction field.
- Managed team agility and tasks as a Scrum Master.
- Handled requirement gathering, analysis, definition, and development of new requirements or modifications based on client needs.
- Presented the solution to potential clients and investors.
- Managed, integrated, and mentored new team members.
- Applied Scrum and DevOps methodologies for efficient team and software development management.
- Developed a .NET application using WinForms and Telerik libraries; managed SQL database relationships.
- Created API Rest services using .NET Core; developed ASP .NET applications using .NET Core technologies.

Prado Museum Project
- Developed and maintained the general Back section for all Front portals of the Prado Museum.
- Controlled and maintained SQL databases, developed API Rest services using .NET Framework technologies.
- Handled maintenance and control of SQL Database relationships.

Junior Developer (September 2018 – September 2019)
IDEA CONSULTING, ZARAGOZA, SPAIN
- Developed and maintained digital solutions for Integral Business Management.
- Focused on the development, control, and maintenance of SQLServer databases.
- Developed and maintained an internal project management solution, enhancing project tracking and reporting capabilities.
- Conducted analysis and definition of client requirements, along with managing client incidents.
- Developed customizations for an existing ERP system based on individual business requirements of clients.

Technical Skills and Competences

1. Programming Languages and Frameworks
- Advanced Proficiency: .NET technologies (.NET Framework to .NET 8), C#
- Knowledgeable In: Python, JavaScript, TypeScript, Java
- Web Development: ASP.NET, Blazor, Angular, HTML, CSS, Bootstrap, jQuery, Sass
- Desktop Development: Windows Forms, WPF (Infragistics, Telerik libraries)
- Mobile Development: Flutter for cross-platform mobile app development

2. Software Design and Architecture
- Design Principles: In-depth knowledge of SOLID principles, Design Patterns, Clean Code and good practices.
- Architecture Patterns: Microservices, Event-Driven, Layered, Client-Server, MVC, MVVM, Onion, Clean
- Domain-Driven Design (DDD): Proficient with practical application
- System Design: Experience in building scalable, distributed systems processing high volumes of data
- Advanced Concepts: Implementation of Saga Architecture with Orchestrator

3. API Development, Integrations, and Data Processing
- RESTful Services: Skilled in developing RESTful services using .NET, adhering to best practices for scalable and maintainable API architecture.
- Alternative APIs: Experience with designing and implementing APIs using GraphQL for flexible data querying and gRPC for efficient, type-safe machine-to-machine communication.
- Streaming APIs: Proficient in developing streaming APIs for real-time data processing and communication.
- ETL/ELT Processes: Extensive experience designing and integrating data ETL (Extract, Transform, Load) and ELT (Extract, Load, Transform) processes for efficient data ingestion, transformation, and loading, ensuring data quality and accessibility for analytics and business intelligence purposes.

4. Testing and Quality Assurance
- Implementing various testing types (unit, component, integration, performance, end-to-end, regression) using tools and packages like xUnit, FluentAssertions, Moq, JMeter, Specflow.
- Proficient applying TDD and BDD development practices and methodologies.
- Assisting QA team in optimizing test suites, with a focus on Python and Behave.

5. Cloud Technologies and DevOps
- In-depth knowledge and application of SOLID principles in software development.
- Proficient in software design patterns and code structuring.
- Expertise in software architecture patterns including MVC, MVVM, Hexagonal, Onion, and Clean architectures.
- Experience in building robust, scalable, and distributed systems, processing millions of messages daily.

6. Database Management
- SQL Databases: Proficient in SQL Server, Oracle SQL, PostgreSQL.
- No-SQL Databases: Experienced with MongoDB, CosmosDB, Azure Storage, and SQLite for unstructured or semi-structured data management.
- ORM Frameworks: Proficiency in Entity Framework and Dapper for database management and data manipulation.

7. Messaging and Asynchronous Processing
- Messaging Systems: Proficient in RabbitMQ and Azure Service Bus for efficient messaging and data processing
- Asynchronous Communication: Expertise in handling asynchronous service communication to enhance application performance

8. Version Control and Team Collaboration
- Version Control: Skilled in Git, with knowledge of branching strategies and Git flow
- Team Management: Experienced in Agile, Scrum, and Kanban methodologies using tools like Azure DevOps and Jira for team and task management
- Leadership: Capable of mentoring and leading development teams, fostering a collaborative and productive environment