



Sergio Jimenez Jimenez

Lead Engineer & Innovation Specialist | Expert in Cloud Platforms & Digital Transformation

Profile

Results-driven technology and innovation professional with a strong background in **cloud-native software and data engineering**, **distributed systems**, and cross-functional project delivery. Experienced in leading complex technical initiatives involving **real-time data pipelines**, infrastructure as code. Proven ability to connect business needs with data-driven solutions, optimize systems for performance and scalability, and drive collaboration across global teams.

Hard skills

- **Cloud Platforms & Infrastructure:** Google Cloud Platform (GCP), AWS (Lambda, S3), Azure **Tools:** Terraform, Helm, Docker, Kubernetes
- **Data Engineering & Analytics:** BigQuery, SQL Server BI, Dataflow, ETL Pipelines, Data Modeling, Stream Processing (Kafka, RabbitMQ)
- **Machine Learning & AI:** Master's in Artificial Intelligence – Focus on ML, Deep Learning, NLP, Computer Vision
- **Programming Languages:** C#, .NET Core, Java, TypeScript, SQL, Python, C/C++
- **Architecture & DevOps:** Microservices, REST/gRPC APIs, CI/CD (Azure DevOps, GitHub Actions), Secure Architecture Design

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GitHub
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Experience

10.2022 - up to date

Smallpdf AG - Zurich (Remote Basel)

Senior Software Engineer

- Lead backend architecture for a **high-throughput document processing pipeline** deployed on AWS.
- Implemented Terraform-based IaC, automated testing and release pipelines, and performance monitoring.
- Mentored engineers and contributed to code quality standards and architecture documentation.

09.2021 - 10.2022

Swiss International Air Lines (Lufthansa Group) - Basel / Zurich

Lead Engineer, Flight Operations Optimization (OPSD)

- Promoted to Lead Engineer for the Lufthansa Group-wide OPSD (Operations Decision Support) initiative in partnership with Google Cloud.
- Led design of **real-time cost analytics engine** for flight operations across multiple airlines
- Took architectural ownership of the Grand Solver, a real-time engine evaluating costs related to flight operations, ensuring scalable, performant, and cloud-native deployment on GCP.
- Developed automation and simulation components enabling cost comparison across diverse crew planning scenarios and operational contexts shared across the Group.
- Actively contributed to the long-term roadmap of OPSD, participated in cross-airline refinement sessions, and mentored junior engineers across locations.
- Recognized as an "outstanding high achiever" for technical depth, stakeholder communication, and collaborative mindset in a multi-airline operational environment.

07.2019 - 09.2021

Swiss International Air Lines (Lufthansa Group) - Basel

Software Engineer

- Developed a cost maintenance and simulation application to verify that invoices received by the airline matched the corresponding contract terms.
- Contributed to budgeting calculations required to operate planned flights based on contractual cost data.
- Worked as a full stack developer, implementing backend logic in .NET Framework and .NET Core, with a frontend built in Angular and RxJS.
- Contributed to PL/SQL development on an Oracle database to support cost calculations and data access.

Soft skills

- Analytical thinking
- Innovation mindset
- Stakeholder communication
- Cross-functional leadership
- Project coordination
- Adaptability
- Problem solving

Languages

English - C1

Spanish - native

German - A2-B1

Certificates

Certified Azure Cloud Developer

<https://www.credly.com/badges/03a223d7-c425-4fc9-b7b4-2a0e4aa57471>

Certified SAFe 4 Agilist

https://www.youracclaim.com/badges/939031f8-f301-4e6c-9bf3-70033df29c3e/public_url

Certified SCRUM master

<https://www.scrum.org/certificates/495301>

04.2018 - 06.2019

Neueda (Acquired by Version1) - Malaga

Software Engineer

- Worked on containerized services using Docker, deployed on Amazon EKS, and shared state through Redis caching.
- Performed development and integration in a Linux environment, contributing to build and CI pipelines using Jenkins and TeamCity.
- **Technologies:** C/C++, CMake, Google Test, Google Protocol Buffers, Docker, RabbitMQ, Redis, FIX, Linux
- **Tools & Methodologies:** Jenkins, TeamCity, Jira, Bitbucket, Scrum

08.2017 - 04.2018

Wilken GmbH - Gijon

Senior Software Engineer

- Contributed to the development of an ERP system for clients in the tourism industry, including SkiData.
- Developed back-end services using JEE8 on WildFly server and created frontend interfaces with Ext JS.
- Participated in agile development, unit testing, and CI/CD pipeline integration.
- **Technologies:** JEE8, Maven, JPA, Ext JS, Arquillian, Mockito
- **Tools & Methods:** Jenkins, Jira, Bitbucket, Scrum

08.2015 - 10.2017

Mecalux Software Solutions - Gijon

Senior Software Engineer

- Developed modules for a warehouse management system (WMS) using .NET Web API and desktop components in WPF and WinForms.
- Built a 3D simulation tool to visualize warehouse layouts and automated systems using XNA (MonoGame) embedded in a WPF client.
- Created back-end synchronization between simulation and WMS, allowing configuration and execution of virtual operations.
- Contributed to build, testing, and deployment infrastructure using CruiseControl.NET, Nant, and WiX.
- **Technologies:** C# .NET (Web API, WPF, WinForms, Entity Framework), XNA/MonoGame
- **Testing & Tools:** SpecFlow, Moq, NUnit, Nant, NuGet, WiX, SVN, Git, Redmine, Scrum

02.2013 - 02.2015

University of Oviedo / Sweetpot - Oviedo

Software Developer Intern

Education

03.2024 - 03.2026

Universidad Internacional de La Rioja (UNIR), Spain

Master's Degree in Artificial Intelligence

09.2017 - 02.2020

Universitat Oberta de Catalunya, Spain

Master's Degree - Mobile Applications Development

09.2011 - 07.2015

University of Oviedo, Spain

Bachelor's Degree - Computer Science (Software Development)