

Johan Fernando Garcia Casas

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Professional Summary

Backend Integration Engineer with 8+ years of experience designing and delivering enterprise middleware solutions — IBM Integration Bus (IIB) and IBM MQ — for Tier-1 banks processing 500K+ daily transactions. Proven record of leading multidisciplinary teams, architecting high-availability integration flows, and ensuring service continuity across SOAP, REST, and JMS protocols. Actively transitioning into cloud-native environments with hands-on experience in Docker, OpenShift, CI/CD pipelines, and Python. Bilingual (Spanish / English).

Education

AWS Technical Professional – (2021)

- Amazon Web Services (online)

Software Engineering – (2011 – 2018)

- Universidad Central de Colombia, Bogotá, Colombia

Experience

Manager – Belen de la Cruz Empanadas and Pastries (Nov 2023 - Currently)

- Operations Manager — Led process optimization initiatives for a food service business, applying data-driven inventory management and supply chain improvements. Managed daily operations during U.S. relocation transition.

Integration Developer – PRAGMA S.A. (May 2021 – Jan 2022)

- Designed and optimized integration services on IBM Integration Bus (IIB v10), supporting high-volume transactional flows for banking clients.
- Containerized IIB integration solutions using Docker and deployed them on OpenShift, enabling consistent environments across dev, QA, and production.
- Implemented CI/CD pipelines using Azure DevOps and GitHub Actions, reducing manual deployment effort and increasing release reliability.
- Executed comprehensive unit and regression tests to validate service behavior across protocol boundaries (SOAP, REST, JMS).
- Managed and configured IBM DataPower and WSRR Registry for service governance and lifecycle control.

Expert Engineer 3 – SOPHOS SOLUTIONS S.A.S (Nov 2019 – May 2021)

- Developed and maintained integration solutions using IBM Integration Bus (IIB) versions 9 and 10 for multiple banking clients simultaneously.
- Designed and managed IBM MQ queue topologies to ensure reliable, asynchronous inter-service communication across distributed banking systems.
- Implemented and exposed services via SOAP, REST, TCP/IP, and JMS protocols, ensuring interoperability across heterogeneous environments.
- Administered IBM DataPower and WSRR Registry, optimizing service lifecycle management and policy enforcement.

Application Programmer – IBM (Feb 2017 – Nov 2019)

- Designed and developed integration services on IBM Integration Bus (IIB) versions 9 and 10 for Tier-1 banking environments processing 500K+ daily transactions.
- Built and maintained IBM MQ message flows and queues supporting high-availability, low-latency inter-system communication.

- Exposed and consumed services using SOAP, REST, TCP/IP, and JMS protocols across multi-team banking projects.
- Configured and governed services through IBM DataPower and WSRR Registry, enforcing security policies and service contracts.
- Mentored and trained junior developers, establishing integration patterns and coding standards adopted across the team.
- Led multidisciplinary teams in the design and maintenance of complex integration architectures aligned with enterprise standards.

Software Analyst – FASOFTCOL E.U. (Mar 2014 – Nov 2016)

- Developed and maintained COBOL batch applications, executing a migration project from AS/400 to COBOL Batch processing.
- Designed JCL scripts for batch job scheduling, improving automation and reducing manual execution overhead.
- Created COPY files to standardize file structures and ensure data consistency across batch processes.
- Built ETL pipelines for mass loading of flat files (CSV, TXT) into DB2 databases, enabling reliable data integration for reporting workflows.
- Provided technical support during QA and production deployments, validating application stability across environments.

Skills

Expert

-  IBM WebSphere MQ
-  IBM Integration Bus (IIB)
-  IBM DataPower
-  IBM WSRR

Proficient

-  Java
-  SQL
-  COBOL
-  Git

Working Knowledge

-  Python
-  Docker
-  OpenShift
-  Linux
-  Claude Code

Projects

FinSignal – Financial News & Stock Correlator (2024 – Present)

- Python-based tool that correlates financial news sentiment with stock price movements using public REST APIs, demonstrating backend data pipeline skills in a real-world financial domain.
- Automates data ingestion and reporting using N8N workflows, applying integration design patterns from enterprise IIB experience.
- Stack: Python, REST APIs, N8N, JSON.

SmartCameraloT_Timbre – IoT Smart Doorbell System (2017 – 2018)

- Built an IoT security and doorbell system on Raspberry Pi with real-time video streaming, motion detection, and remote alerting.
- Implemented a REST API backend in Python/Flask to handle event triggers and serve the OpenCV-based video feed to a web interface.
- Stack: Python, OpenCV, Flask, Raspberry Pi, Linux.
- Repository available at: github.com/njogaca

Languages

Spanish (Native) English (Advanced)