

# David Barreiro Salgueiro

Senior Software Engineer | Distributed Systems · Data Platforms · Streaming



## Summary

Senior Software Engineer with hands-on experience designing and building scalable platforms, distributed systems and real-time data solutions. My background combines backend engineering, data infrastructure and cloud-native platforms. I have worked with Java, Go, Kafka, Spark(Python), ClickHouse, Kubernetes, Docker and modern CI/CD environments, delivering reliable systems for demanding workloads. I enjoy simplifying complex problems, improving performance and building practical solutions that scale. Core areas include backend engineering with Go and Java, distributed systems, Kafka-based streaming architectures, cloud-native platforms, APIs...

## Professional Experience

### Senior Software Engineer

Apr 2022 - Present

SDG Group

*Designed and developed scalable real-time data platforms using Kafka, Spark and containerized environments.*

- Creation and maintenance of development images with Docker.
- Message pipeline with Spark for data processing using Scala and Python.
- Development of low-code solution for data exploration with KSQL.
- Built backend services and internal tooling in Go and Java to improve operational efficiency.
- Implementation of Kafka Connect, Debezium, DBT & Airflow for data processing.
- Enhanced observability and reliability through Grafana dashboards, monitoring and automated deployments.
- Contributed to architecture decisions, scalability and maintainability of critical systems.

### Software Engineer

Mar 2019 - Apr 2022

Altia

*Delivered backend and data engineering solutions for enterprise analytics environments.*

- Developed microservices and APIs with Java / Spring Boot.
- Implemented near real-time pipelines with Kafka Streams.
- Built monitoring and observability systems with Prometheus.
- Automated CI/CD and deployment workflows.
- Improved reliability, scalability and operational efficiency.

### Software Engineer

Jun 2018 - Mar 2019

Emetel

*Built and operated a real-time data processing platform using Kafka, Spark and Elastic Stack.*

- Created and maintained Docker images for reproducible deployments.
- Developed Java and Scala services for stream processing.
- Implemented ingestion pipelines from multiple external sources.
- Built Kibana dashboards for monitoring and analytics.
- Automated deployment and operational processes.

## Contact

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📄 <https://github.com/davicafu>

## Education

- **Degree in Computer Engineering**, *Santiago de Compostela University (USC)*
- **Master in Big Data and Visual Analytics**, *International University of La Rioja (UNIR)*

## Certifications

- **ClickHouse Certified Developer** — *ClickHouse*
- **Oracle Database 11g: Performance Tuning**
- **Cloudera: Developer Training for Spark & Hadoop**
- **AWS Certified SysOps Administrator**

## Skills

**Programming Languages:** Go, Java, Bash, Python, Scala, Spring Boot

**Databases:** PostgreSQL, ClickHouse, MariaDb, Redis, MongoDB, Snowflake

**Data Processing:** Kafka, Flink, Databricks, Spark, RabbitMQ, DBT, Airflow

**AI-Assisted Engineering:** Agentic Systems, Context Engineering, LLM Integration, Human-in-the-Loop Development

**Infra & DevOps:** CI/CD (GitHub, Github Actions, Jenkins, GitLab, Bitbucket), Docker, Kubernetes, Terraform

**Cloud:** AWS, Azure, Google Cloud

**Observability & Analytics:** Grafana, OpenTelemetry, Prometheus, Superset, Elastic (ELK), Power BI