Rafael Ernesto Jimenez Herrera

Senior Software Engineer – Scala and Java Distributed Systems – Event Driven Architecture – Functional Programming

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Summary

Experienced Senior Software Engineer with +5 years of experience and focus on JVM languages such as Scala and Java. Passionate about developing distributed systems implementing event-drive architecture patterns. Strong understanding of Functional Programming and libraries such as Akka, Cats/Cats Effects, ZIO, Spring and Play frameworks.

Experience

Senior Scala Software Engineer

E-Core – AffiniPay 09/2023 - Present

Developed and maintained microservices for a Payment Gateway solution implementing an event-driven architecture.

- Created design documents for new microservices to process and persists incoming data from Kafka and other services.
- Developed REST API's with the help of Akka HTTP, Persistence, Streams and Clustering.
- Created and implemented strategies for consuming and producing messages to Kafka topics.
- Assisted in the deployment process using technologies such as Docker, Helm and Kubernetes on AWS.

Scala Software Engineer

Applaudo – Walmart 03/2022 - 09/2023

Developed and maintained microservices for services in charge of the Settlement and Reconciliation process of credit card transactions implementing an event-driven architecture.

- Developed REST API's with the help of Akka HTTP, Persistence, Streams and Clustering.
- Implemented retry mechanisms to critic system processes to automate and leverage without the need of human intervention.
- Provided support in troubleshooting production issues and proposed solutions based on RCA's.
- Assisted in the deployment process using technologies such as Docker, Jenkins and Kubernetes.

Certifications

Scala - Akka

- Lightbend Scala Language Professional
- Lightbend Akka for Scala Professional
- Lightbend Akka Streams for Scala Professional
- Lightbend Akka Cluster Fundamentals
- Lightbend Akka Cluster Sharding

Microsoft Azure

- AZ-300: Microsoft Azure Architect Technologies
- AZ-301: Microsoft Azure Architect Design
- Microsoft Certified: Azure Solutions Architect Expert
- AZ-400: Microsoft Certifed: DevOps Engineer Expert

Hashicorp

- HashiCorp Certified: Terraform Associate

Skills

Scala Akka Akka HTTP Akka Stream Akka Persistence Akka Cluster ZIO Cats Http4s Cats Effects Slick Doobie Cassandra Kafka

Java Hibernate Spring Boot Spring JPA MySQL PostgreSQL OAuth

Azure AWS GCP Docker Jenkins Helm Kubernetes Terraform Unit Testing CI/CD Integration Testing

Scala Software Engineer

Applaudo – Walmart 01/2022 - 03/2022

Developed and maintained batch and ETL processes using Spark and Apache Airflow for orchestrating the pipelines using GCP as the main Cloud Solution.

- Refactored ETL Pipelines to replace raw SQL queries and make use of Spark Dataframes.
- Added support to export metrics from the pipelines using Prometheus and creating visual dashboards using Grafana.
- Provided support in troubleshooting production issues and proposed solutions based on RCA's.
- Assisted in the deployment process using technologies such as Docker, Jenkins and Kubernetes.

Java Software Engineer

Applaudo – Walmart 01/2021 - 12/2021

Developed and maintained self-service portal to allow Walmart developers to provision Cloud resources with all the architecture and security requirements.

- Developed a self-service portal using React and Java as the backend to allow developer to provision and keep track of cloud resources.
- Developed and maintained Terraform modules that provisioned Azure and GCP resources with Walmart standards and were triggered by the self-service portal.
- Exposed Cloud resources metrics with the usage of Prometheus and Grafana Dashboard to allow developers keep track of their resources.
- Assisted in the deployment process using technologies such as Docker, Jenkins and Kubernetes.

Lead Azure DevOps Engineer

Applaudo – Walmart 01/2019 - 01/2021

Lead a team of Azure DevOps engineers and provided support to mora than 25 developers teams, assisted on the creation and maintenance of Azure and GCP Cloud resources following security and governance high quality standards.

- Created and assisted CI/CD pipelines using Jenkins and Azure Cloud resources such as ACR, Web Apps and Azure Functions.
- Provided consulting to development teams that required assistance on Architecture designs for deploying their solutions into the cloud.
- Provided support in troubleshooting production issues and proposed solutions based on RCA's.
- Complied with security and governance standards that came from InfoSec team.
- Complied with time resolution SLA's for providing support on issues according to their severity.

Education

Advanced: Informatics Engineering (2015 - 2020) - Universidad Centroamericana José Simeón Cañas