Shubham Sharma

Scala developer
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Experience: 2.8 year (Aug-2018 to April-2021)
Company: Spineor web services

Working Experience

- Worked on back-end using Scala 2.12.0 and Spark 2.1.0 to perform several aggregation logics
- Hands on Experience in Akka Actor for writing distributed microservice.
- Experience in working with NoSQL databases like Cassandra.
- Hands on Experience in play framework for writing Asynchronous Restful web service.
- Make a Data pipeline to handle large datasets that have been coming from different data sources.

Technical Skill Set

Operating Systems:- Ubuntu
Programming Languages:- Core Java, Scala, Graphql
ORM Tool: Hibernate, Phantom
Databases:- Cassandra.
Web Frameworks:- Play Framework and Akka Actor
Big Data Ecosystem:- Apache spark, Apache kafka
System Design:- Basic Knowledge of Reactive Architecture

Project Details

Project Name:- TAPS(The Auto Part Shop)
Role: Team member(Developer)
Environment :- Play-Framework, Akka-Actor, Apache Spark , Apache Kafka and Apache Solr
Languages: Scala, Graphql
Database:Cassandra.

Description:-TAPS is an E-Commerce website part of EBC Technologies (USA). It is an online auto part selling website. This project consists of around 18 micro web services each performing specific functionality. All services developed using Scala, Play, Akka and Kafka with Cassandra to store data.

The following are the services on which I have worked:

GraphQL (Relay Sangria) - This service is the interface between UI and other backend services. This service developed using Scala library Sangria which enables UI to query data by using Relay. I have worked on this service to integrate it. It is used to centralize the different services at one place.

Inventory-Service:- Inventory service is used to store and update the information about price, supplier and quantity available of the product. It is triggered when different vendors dispatch their product data to FTP server. When the file arrives into the server it downloads that file and starts the process to calculate the price, quantity and stock. After the calculation process is done the data is transferred into solr and Kafka asynchronously for further service processing.

Email-Service:- Email service is triggered by OMS(Order Management Services). OMS basically performs the step of order placement. It breaks order into vendor specific orders and sends the order parts to the respective vendor. After sending the order to the vendor then it also asks each vendor periodically for orders fulfillment status. OMS service sends the fulfillment status of order to email service which sends an email to the customer about the order status.

Order-Invoice-Service :- This service handles the invoices sent by the different vendors. When vendors send the order invoice it loads data into the cassandra database to analyse the order price and sends invoice details to the tracking service which sends the tracking detail email to the customer.

Sale Tax-Service:- This service calculates the sale tax according to the zip code entered by the user at order placement stage.

Responsibility:

- Develop backend code using Scala in the Play Framework.
- Handle Cassandra database mapping using Phantom.
- Make a Data pipeline to handle large datasets for Inventory service.
- Bug fixing on other services which are used in this project.

Project Name:- PM(Plusemore)
Role: Team member(Developer)
Environment :- Play-Framework, Akka-Actor, Apache Spark , Apache Kafka and Apache Solr
Languages: Scala, Graphql
Database:Cassandra.

Description:-PPM is an E-Commerce US based website selling auto parts online. This project consists of several independent micro web services which perform domain

specific functionality. All services developed using Scala, Play, Akka and Kafka with Cassandra to store data.
The following are the services on which I have worked:

GraphQL (Relay Sangria) - This service is the interface between UI and other backend services. This service developed using Scala library Sangria which enables UI to query data by using Relay. I have worked on this service to integrate it. It is used to centralize the different services at one place.

Inventory-Service:- Inventory service is used to store and update the information about price, supplier and quantity available of the product. It is triggered when different vendors dispatch their product data to FTP server. When the file arrives into the server it downloads that file and starts the process to calculate the price, quantity and stock. After the calculation process is done the data is transferred into solr and Kafka asynchronously for further service processing.

Feed-Updater-Service :-The job of this service to update inventory on Google merchant centre in near real time using Google content API. In this service we use Kafka Consumer API to read the event from kafka topic and perform relevant operations for updating inventory on Google merchant centre.

Ebay-Inventory-Management-Service:- This service is triggered by a webhook whenever a file arrives over BrickFtp Server. When a file arrives it reads the file to update inventory in ebay and our catalog parallelly that way we make it resilient which means if failure occurred during update catalog or ebay it will not impact either of the process.

Email-Service:- Email service is triggered by OMS(Order Management Services). OMS basically performs the step of order placement. It breaks order into vendor specific orders and sends the order parts to the respective vendor. After sending the order to the vendor then it also asks each vendor periodically for orders fulfillment status. OMS service sends the fulfillment status of order to email service which sends an email to the customer about the order status.

Vehicle service:- This service stores the information of the vehicle like year, make, model, sub-model, engine and many more. It is just performing basic crud operations like getVehicle,removeVehicle, addVehicle and deleteVehicle.

Order-Invoice-Service :- This service handles the invoices sent by the different vendors. When vendors send the order invoice it loads data into the cassandra database to analyse the order price and sends invoice details to the tracking service which sends the tracking detail email to the customer.

Sale Tax-Service:- This service calculates the sale tax according to the zip code entered by the user at order placement stage.

Responsibility:

- Develop backend code using Scala in the Play Framework.
- Handle Cassandra database mapping using Phantom.
- Make a Data pipeline to handle large datasets for Inventory service.
- Bug fixing on other services which are used in this project.

Project Name:- Real time data change replication with Apache Kafka Connect and Debezium
Role: Team member(Developer)
Language :- Scala.
Tools :- Apache kafka, Debezium
Database:- Mysql.

Description :- The Data change replication or Change Data Capture(CDC) continuously identifies and captures incremental changes to data and data structure from a source such as production database. This is a data analytic pipeline where Debezium watches the database continuously and if any event happens into the database it ingest that event into the Apache kafka Topic. At the destination run multiple consumers for transforming the event occurred into the Apache Kafka topic.

Perform basic two things with data at destination end.

1. Record what's happening to the business - sales, expenditures, hiring and so on.
2. Analyze what's happening to assist decisions - which customers to target, which costs to cut and so forth by querying records.

Responsibility:

- Integrate mysql database with apache kafka through Debezium.
- Make a pipeline for transferring real time events from source to destination.
- Code refactoring and optimization.

Certification Details

- Basic Reactive Architecture certification from Lightbend.
- Scala Professional certification from Lightbend.

Education Qualification

- B.E (ECE) from Panjab University, Chandigarh in 2018 with an CGPA 7.04

- Diploma(ECE) from Bhutta Polytechnic college, Ludhiana in 2015 with an aggregation 74%.
- Xth P.A.U Govt. Sen. Sec. School, Ludhiana in 2012 with an aggregation 78%.

Personal Details

Language knowns: English, Hindi, Punjabi
Date of birth:- 26-05-1996
Marital Status:- Single
Present Address: H.no:8880/ 6A, Ajit nagar, Haibowal kalan , Ludhiana, Punjab

DECLARATION

I declare that the above mentioned information is true to the best of my knowledge and belief.

(SHUBHAM SHARMA)