



Gopal-Tiwari.github.io



Linkedin.com/in/GopalTiwari2012



Github.com/gopal-tiwari



DZone.com/users/2730125/GopalTiwari2012.html



Hackerrank.com/Gopal_Tiwari2012

Languages

Java ●●●●○
Scala ●●●●○
C# ●●●●○

Big Data Stack

Spark Batch ●●●●●
Spark Streaming ●●●○○
Apache Kafka ●●●○○
HDFS ●●●○○
ELK Stack ●●●●○

Databases

Hive ●●●●○
Impala ●●●○○
Cassandra ●●●○○

Web Technologies

AngularJS ●●○○○
Bootstrap ●●●●●
CSS3 ●●●●○
HTML5 ●●●●○
jQuery ●●●●○

Other Tools/Technologies

Git, Jenkins, ASP.NET, Signal-R,
Web Sockets, Windows Services,
REST Services, Shell Scripting,
Spring, Grafana, Windows,
Linux, Cloudera, Jgitflow, ScalaTest,
Eclipse, IntelliJ, Sql, Maven,
SonarQube, Jacoco, Travis

Education

B.Tech CSE AKTU – 2012
Intermediate CBSE – 2007
High School CBSE – 2005

Microsoft
CERTIFIED
Professional

Microsoft
Specialist
Programming in C#

Microsoft
Specialist
Programming in J2EE & CSS3

Gopal Tiwari

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Profile

Adroit Open Source and **Big Data enthusiast** working as **Senior Software Engineer** with **VISA Inc.**, having an experience of more than **6.10 years** in **product development** with **Scala, Java & C#**. Advanced technical experience on ETL Big Data solutions using **Apache Spark, Hadoop, Kafka, Hive**, ElasticSearch, Logstash, Kibana and Cassandra. Having proclivity towards learning new technologies and languages.

Frameworks/Utilities/Open Source

Spark-Unit-Testing-Framework

(Spark-Core, Spark-sql, Scala, Scala-Test)

Project is intended to provide fast and visual way to write spark Dataframe or Dataset unit tests.

Git Hub Link: <https://git.io/fjOnX>

HDFS-File-Merge

(Hadoop, Spark-hive, spark-sql, Scala)

This project can be handy if you want to return a single file to a client or what to perform cleanup of small files.

Git Hub Link: <https://git.io/fjOnH>

Spark-Scala-Extensions

(Hadoop, Spark-Core, Scala, Scala-Test)

This project is intended to provide handy useful extension methods to work easily with spark scala projects.

Git Hub Link: <https://git.io/fjOnQ>

Spark-Fixed-Length-File-Parser

(Hadoop, Spark-Core, Scala, Scala-Test)

A configurable fixed width file parsing project intended to parse a file as a Dataframe for further transformations.

Git hub Link: <https://git.io/fjOnN>

Professional Experience (6 Years 10 Months)

VISA Inc. as Senior Software Engineer (Oct, 18 – Present)



■ VISA Travel Predict (Cross-Border)

(Apache Spark, Hive, Scala-Test, HDFS, Scala, Maven)

VISA Travel Predict is a value add product offering, designed to support Visa Issuers in identifying potential travelers in order to facilitate the optimization opportunities for their cardholders.

Responsibility: Create and optimize the ETL flow to process data stored in Hive, based on the requirements from product office. Write code in **Scala** with **Spark** framework, Unit tests, and Manage git pull requests. **Tuning & optimization of Spark memory & cores** is one of the critical task for this project due to huge data volume ~150 Billion Records with ~6 TB on disk size

■ Account List File Processing

(Apache Spark, Hive, HDFS, Scala, Scala-test, Maven)

This project is used to facilitate proper data for the upstream business applications. It validates & loads fixed length text account files to HIVE. Files are received from banks in order to extract some analytical data for their customers which only VISA offers.

Responsibility: Move the file to hdfs and parse the file as **Spark** Dataframe. Majorly task involves writing **Spark & Scala** code to applying transformations on data stored in HDFS file using SparkSQL like lookups, key validations etc.

IQVIA as Application Development Specialist (Nov, 16 – Sep, 18)



■ PDS (Patient Data Strategy) Adherence & Loyalty

(Apache Spark, Hive, Impala, HDFS, Scala)

PDS is all about extracting insights from TB's of data collected at medical transactional level. Ex. Prescription adherence of a patient, his choice of medical plan, majority or plurality stores etc.

Responsibility: Create query builder & framework to validate, upload, schedule and process data stored in **Hive**, based on criteria provided in config files.

Interests



Online Articles Published

- Build and Install Hadoop on Windows with Native Binaries
 - Article Link (goo.gl/SNVNOz)
 - Video Link (goo.gl/65Erh3)
- Setting Up and Running Apache Kafka on Windows OS
 - Article Link (goo.gl/flXVh6)
 - Video Link (goo.gl/iLSSya)

Industrial Trainings

- Attended 15 Days LightBend training on Spark & Scala. (2018)
- Training in J2EE with Struts Framework at HP Education Services (2011)
- Six month training in C#, ASP.NET & SQL SERVER 2008 from NIIT (2010)

Can Speak & Write

- English
- Hindi

Contact Info



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Code is primarily written in **Scala** using **Spark**. **Tuning & optimization of Spark memory & cores** is one of the critical tasks for this project due to huge data volume.

▪ Drug Stock Prediction

(Apache Spark, R, Impala, Hive, Spring-Boot, HTML, CSS, Scala, Java, Thrift)

This project was intended to show visualization for future drugs stock to client based on historical consumption pattern of specific molecule. Holt-Winters' seasonal method is used here for Forecasting of seasonal drugs.

Responsibility: Develop **Spark** ETL to pre calculate dispensed drug quantity, create a dashboard to show multiple graphs along with **Spring Rest** APIs to pull data from Impala.

Infosys Ltd. & EdgeVerve as Senior Systems Engineer (Feb, 14 –Nov, 16)

▪ Infosys Mana

(Apache Spark, ElasticSearch, Logstash, Kibana, MySQL, Kafka, Java, Scala)

Infosys Mana is a knowledge-based AI platform which continuously learns routing logic, resolution processes and diagnosis logic to build a knowledge base that grows and adapts to changes. It contains features like predicting events, bug localization, knowledge modeling and self-healing incidents using its knowledge base.

Responsibility: ElasticSearch, Logstash, Kibana, **Kafka**, Visualizations of Dashboards, Metric computation ETL coding for streaming data with **Spark Streaming and Kafka**.

▪ IADA (Infosys Anomaly Detection & Analytics)

(Apache Spark, Cassandra, Logstash, Kafka, spring, Web Sockets, cubism.js, jQuery, Scala, Java, Thrift)

IADA is able to show real-time multiple metric graphs and their correlation ranks between different metrics like CPU, Heap or Physical memory uses, etc.

Responsibility: Develop Spark streaming application to show real-time metric on dashboard along with Kafka administration, extract Metric from Cassandra and Kafka, Spring Rest, Front End & Web Sockets.

Bizz Shine Infosystem Pvt. Ltd. As Software Developer (July, 12 – Feb 14)

▪ FriendsMantra.com (SignalR, asp.net, MS Sql Server, Bootstrap, jQuery)

A Social Networking website with features like chatting, friend request, people search, content sharing, image sharing, photo albums and more.

Responsibility: Architecture design, coding, UI & database support for user & admin panel.

▪ SaralBusiness.com (asp.net & MS Sql Server, Bootstrap, jQuery)

SaralBusiness is a Vendor Listing (yellow pages) website where owners can register their businesses & end-user could search by his criteria.

Responsibility: Frontend, Backend & Database developer.

Activities & Awards

- Honored with **VISA Archimedes Award** for exceptional innovations in projects.
- Hackathon 2017 genomics project awarded as **Great Investment Idea** at IQVIA.
- Awarded **"Above & Beyond"** in IQVIA for exceptional product delivery.
- Received participation certificate for Capgemini Tech Challenge 3.0 in 2016.
- Awarded **honorable Mention** for Project ElectroSoft in "International Innovative Application Competition" at Geneva, Switzerland by **International Telecommunication Union (ITU)**, Switzerland. (goo.gl/XIKpYT)
- Selected in National Level Competition-TechTop 2011 in top 18 software projects of India. (goo.gl/vs5ls7)
- Secured 2nd position in IBM National Software Demonstration Competition in 2012.
- Awarded Gold in Caring Souls Foundation(NGO) for helping cancer victims