Sagar Gatfane

Charlotte, North Carolina   Email: Sagargatfane@gmail.com

Cell: 704 266 8363

EXPERIENCE SUMMARY

- **MAPR certified Spark Developer** having 8 years of IT experience in developing, testing of software using wide variety of technologies in all phases of the development life cycle, including hands-on experience in Big-data/Hadoop/Spark Technologies and in Business Intelligence tools like OBIEE 11g, SAP BO, Qlik View.
- Hands on experience with Spark components like **Spark SQL, Streaming, GraphX, Machine learning**, HDFS and Hadoop Ecosystem (Pig, Hive, Oozie, HBase, Zookeeper, Flume, and Sqoop).
- Developing and implementing Spark programs using **Scala** to work with Big-data.
- Experience in NoSQL databases like HBase, Cassandra and MongoDB and messaging broker such as **Apache Kafka**
- Procedural knowledge in cleansing and analyzing data using **HiveQL, Pig Latin**.
- Importing and exporting data using **Sqoop** from HDFS to Relational Database Systems (RDBMS) and vice versa.
- Hands-on experience with Hadoop distributions such as MAPR, Horton works and Cloudera.
- Extensive experience in data warehouse concepts and BI reporting tools like OBIEE 11g, SAP BOXI reports, Cognos, Qlik View.
- Good Inter-personnel skills and ability to work as part of a team as key player. Endless desire to learn, master new technologies and to deliver outputs in short deadlines.
- **CFA Institute Awarded Claritas Investment Certificate holder** and comprehensive understanding of investment banking and capital markets.
- Hands-on experience on ALM, Quick Test Professional, Fidessa, FIX Protocol, NYSE TradeScope, WebMinder, Fidessa Data Administrator, OPICS plus, GFX Buffet, UNIX, SQL Server, SOAP UI, IR360 MQ, Aexeo, Foreign exchange applications like GFX Buffet, OPICS Plus.
- Knowledge of trading systems of hedge funds, mutual funds, options, equity, fixed income securities, swaps, FX market, commodity market etc.
- Completed **ISTQB certification** for software testing, experienced in QA methodologies and involved in SIT, end to end, Smoke Sanity, Functional, Regression testing

TECHNICAL SKILLS

Technology	Apache Hadoop, Apache Spark (SparkSQL, Streaming, GraphX, MLlib)
Operating Systems	Windows Vista/7/10, UNIX/LINUX (Ubuntu, CentOS, Redhat)
DBMS/Databases	Oracle 11g, MS SQL Server 2012, Sybase
Programming Languages	Scala, Python
Hadoop Ecosystem	HDFS, Oozie, Hive, Pig, Sqoop, Flume, Zookeeper, HBase
Methodologies	Agile, Water Fall
NoSQL Databases	HBase, Cassandra, MongodB
Tools	IR360 Message queue MQ XML message, WinSCP, Oracle OBIEE 10g and 11g, Qlik View

PROJECT EXPERIENCE

Citco Fund Services Ltd.   **Sept' 15 to Present**

1. Project: Big data analysis using Apache spark
Client: Citco Fund services
Role: Big-Data Developer

Description: Analysis of Hedge funds trading / market data using distributed systems like Apache spark components which includes Spark SQL, Spark streaming, graph analysis and machine learning techniques.

Responsibilities:
- Developing Spark programs in Scala to perform Data Transformation, creating dataframes and running Sql, spark streaming, windowed streaming application in scala
- Created MLlib (Machine learning) component of Spark for techniques like Classification, regression, clustering, created recommendation engine based on machine learning workflow.
- Worked on importing the data from different sources like HDFS/Hbase into Spark RDD.
- Skilled in Spark RDD transformations, actions to implement business analysis.
- Analyzing and cleansing raw data by performing Hive queries and running Pig scripts on data.
- Created Hive tables, loaded data and wrote Hive queries that run within the map.
- Used Oozie operational services for batch processing and scheduling workflows dynamically.
- Worked on creating end to end data pipeline orchestration using Oozie.
- Evaluated suitability of Hadoop and its ecosystem to the above project and implementing / validating with various proof of concept (POC) applications to eventually adopt them to benefit from the Big Data Hadoop initiative.
- Used Sqoop to import data into HDFS and Hive from other data systems.
- Using Spark streaming consumed topics from distributed messaging source Kafka and periodically pushes batch of data to Spark for real time processing.
- Developed Pig Latin scripts for the analysis of semi structured data.
- Manage jobs, streaming data through spark Web UI and HUE.
- Involved in converting Hive/SQL queries into Spark transformations using Spark RDDs, Spark SQL and Scala.
- Experience in writing PIG scripts and Hive Queries for processing and analyzing large volumes of data.
- Used and created Hive tables and involved in data loading and writing Hive UDFs.

Environment: Hadoop, HDFS, Hive, Flume, Sqoop, Oozie, PIG, Eclipse, Oracle, Ubuntu, CDH, Cloudera, Spark SQL, Spark Streaming.

2. Project: Enterprise Data Warehouse (EDW)   **Sept' 15 to Present**
Client: Citco
Role: QA Analyst

Description: Citco Hedge Fund Service offering includes fund accounting and net asset value calculations, investor relation services, anti-money laundering compliance, corporate and legal services, and various other ad-hoc services such as tax reporting and financial statement preparation. Citco's on-line reporting tools, CitcoOnline, offer both investment managers and investors an extensive suite of online reports to provide them with the tools they need to operate efficiently and effectively. Data warehouse is a web based decision support tool designed to provide clients with the power to take control over operational reporting. A self-service tool which allows the end user to access data, create or modify reports, and perform data extracts to meet their business needs.

Responsibilities:
- Develop Test plans, test scripts, execution and logging defects using HP ALM 11.
- Perform Functional, Smoke, Sanity, Ad-hoc, Regression testing.
- Verification of data in OBIEE 11g reports with Front End Application Aexeo Active PnL and against the database

- Verification of common Net asset value (NAV) pack reports like, Financial statements – Balance sheet & Income statement, Position and Market value report, Broker balance summary, Dividend reports etc. and also Client specific dashboard reports.
- Write SQL queries for querying data against different data bases for data verification process.
- Run database refresh batches and validate data in dimensions and facts table with source tables.
- Verify ETL process running correctly by querying data in source tables and data warehouse.
- Actively work with Business analysts, Product owners, Developers and Support groups for understanding and troubleshooting purpose.

Environment: Oracle Business Intelligence suite OBIEE 10g/11g, SAP Business objects BOXI, HP QC/ALM 11.0, Oracle 11g and SQL developer, Aexeo 4, Atlassian Jira.

Synechron Technologies Pvt. Ltd.   **Nov' 11 to Sept' 15**
1. Project: Back office application for foreign exchange (BOX)   **Mar' 14 to Sept' 15**
Client: Wells Fargo
Role: Senior QA analyst

Description: BOX is back office application for foreign exchange. Wells Fargo's BOX consists of Java software modules and SQL server. Modules in BOX are payment tracker, Confirmations, Back office reports. Also BOX has End of day batch process for all 5 branches which will run workflows in specific order to send reports and accounting files to downstream partners.

Responsibilities:
- Create test cases for Spot, forwards, NDF, window drawdown, cash trades in BUFFET/OPICS.
- Going through FSD and preparing traceability, test cases for all functional requirements.
- Reviewing them with business partners and upload in HP ALM (requirements, test cases), follow HP ALM life cycle
- Logging and tracking defects, discussing in triage meetings
- Communicate with offshore and onshore team members and assign tasks
- Send daily status reports to client
- Involved in ad-hoc, smoke and sanity testing in new builds, SIT, end to end test and regression testing
- Run processes through JMX Mbeans (later with Autosys), verifying logs for error troubleshooting, Check/modify files in UNIX
- Report accurate errors to technical analysts for quick fixes.
- Also involved in release management, created game plan, organizing meeting with teams, sending notifications, pre deploy, deploy, post deploy and business validations.

Environment: FX (foreign exchange), OPICSPlus 3.0, GFX Buffet, IR360 Message queue MQ XML message, UNIX WinSCP, JMX, MS SQL 2008, IR360 MQ, SOAP UI, HP QC/ALM 11.0, Oracle 11g and SQL developer, Autosys.

---

2. Project: US-Broadridge-BPS SIS Conversion   **March' 13 to Dec' 13**
Client: Broadridge
Role: QA Analyst

Description: Cetera, FMS Bonds, Edwards Jones is converting from Broadridge SIS to Broadridge BPS back office. The BPS back office solution set has somewhat different data, functionality, and data delivery than the SIS back office. Cetera uses Aspire Investor / Broker (among other systems) for the user interface between PV and the back office. Aspire Investor / Broker User Interface interacts with both the SIS and BPS back office systems. The same features and functionality shall be provided to Cetera via the Aspire Investor Broker using BPS back office solution as Cetera has using the current Aspire Investor Broker using SIS back office solution.

Aspire is a web based application. All batch jobs run on Unix and back end is built on Sybase database. The test planning and test case documentation is done on HP ALM Quality Center (QC) and automation and regression testing is done using HP Quality Test Professional (QTP).

Responsibilities:

- Prepared the test cases for all types of Equity, options, Fixed income, mutual fund, advanced order, blast order by covering the requirements, used traceability matrix, and executed test cases using HP ALM QC 11.00 tool.
- Logged the defects, tracked them to closure using BMC Remedy Action Request System and discussed their priority during calls for fixing in urgent manner
- Smoke and sanity testing in new builds, also end to end test and regression testing.
- Worked on Brokerage Plus BPS and Advanced order management AOM mainframe systems which is used by major clients like SCHWAB, Barclays, PSNUS, Edward jiones, Cetera, FMS Bonds, Blair etc.
- Worked on detailed testing of advanced reports like portfolio performane, summary, holdings open & closed tax lots, tax summary report generated from Cognos.

Environment: Aspire Investor/broker application for Cetera, Sybase, HP ALM QC 11.00, BPS mainframe system, advanced order management mainframe system, BMC Remedy Action Request System

---

3. Project: 4Sight Securities Financing Reporting   **Feb' 12 to Jul'12**
Client: ABN-AMRO
Role: Business Analyst

Description: The 4Sight project has strong ties with the Securities Financing Process Improvement Program. The overall objective of the Securities Financing Process Improvement Program is to improve control over the securities financing business processes and achieve more accurate financial reporting in the short and mid-term. Securities Finance has elected to replace the existing Global One (G1) environment with 4Sight Financial Software (4SF). This will achieve a streamlined environment, replacing G1 and a number of satellite systems that were necessary to address the gaps in G1 functionality. The requirements gathering and design study was carried out by the system vendors, 4Sight Financial Software, and the business architecture are based on the outcome of their analysis.

Responsibilities:
- Prepared and tested new and change reports requests by business users and traders. Validation of those reports with 4Sight Securities financing application screens
- Prepared documents for users on how to use BO for giving access and rights, to add, delete, modify new / existing user. Also prepared functional design (FD) documents for reports which describes gives full report information

Environment: Crystal Reports, Business Objects XI, Oracle 11, 4Sight Securities Financing Application

---

Polaris Software Lab Ltd.   **Jul'10 to Nov'11**
1. Project: HSBC Fidessa Implementation   **Sep'10 to Nov'11**
Client: HSBC
Role: Test Analyst
Description: Fidessa is multi-asset trading, portfolio analysis, decision support, compliance, market data, and connectivity solution for firms involved in trading the world's financial markets. Fidessa trading platform suite of applications manages and automates operations for financial institutions. The software captures, routes, monitors, and confirms equity trades from stock exchanges and the suite includes modules tailored to financial markets in all over the world.

Responsibilities:
- Understood the requirements completely in every release by referring CQs through change request management tool IBM Rational ClearQuest, and closely interacted with the owners/ clients

- Prepared the test cases for each release and executed using Quality Centre 9.2, logged defects and tracked them to closure, and sent daily execution reports to the clients
- Tested every type of flow in Fidessa such as DMA, DSA, Algo, Program Trading Managed, Basket Execution (BEAM), Quick Order Entry, and Mouse Trading on Order Depth Grid. Similarly Synthetic DMA, Swaps, and proprietary notes in equity finance for derivatives trading using omega application
- Used Financial Information Exchange (FIX) 4.2 protocol for sending orders in all flows
- Tested using real markets (exchange connections) and broker connections such as Nite, Macqurie, and ITG in many countries

Environment: Fidessa Trading Application 7.0.1-7.4.1, Fidessa Data Administrator, Sybase, Real Time Database, NYSE TradeScope Fix Engine, FIX Protocol, GFIX

---

2. Project: Global CRM Implementation   **Jul'10 to Sep'10**
Client: HSBC
Role: Functional Consultant
Description: Provide the business with one CRM solution/model that can be deployed throughout the global private bank. A group private banking CRM system with up-to-date client profiles is required to manage clients' financial needs such that products and services are tailored to best for their needs. CRM model will be used throughout all global private business that will allow flexibility, but still provide the global private bank with one HSBC solution.
Responsibilities:
- Prepared the test cases by covering the requirements, used traceability matrix, and executed test cases using Quality Centre 9.2 tool
- Logged the defects, tracked them to closure using HP Quality Centre, and discussed their priority during calls for fixing in urgent manner

Environment: eCRM Application, Quality Centre 9.2, MS Office Suite

---

Infosys Technologies Ltd.   **Dec'06 to Sep'08**
1. Project: Premium Servicing Platform (PSP) Automation using QTP   **Feb'08 to Sep'08**
Client: American Express
Role: Senior Developer
Description: Premium Servicing Platform (PSP) was a Java-based application, which was developed for servicing of Premium, Titanium, and Centurion cardholders. Whenever there was any change in backend software, the whole functionality of PSP needs to be validated, which would become time consuming for the Manual testing. So, it was suggested to the client that PSP needs the automation by which they can save the money of extra manual hours while the automated scripts using QuickTest Professional software can easily perform the Regression testing of the PSP portal and also in a faster way.
Responsibilities:
- Prepared the Automation test scripts to test the whole functionality of the PSP portal using data driven approach and fetching data from excel sheet during runtime
- Used VBScripting in the automation scripts at basic level

Environment: QTP 8.0, Quality Centre, PSP Application

---

2. Project: Ronaldinho   **Mar'07 to Jan'08**
Client: American Express
Role: Business Analyst
Description: Project Ronaldinho was the initiative to build a co-brand partnership by purchasing an existing card portfolio of approximately 126,000 clients from another card-issuer in Germany and Austria. The co-brand partner was BMW and the cards were a mixture of Visa and MasterCard. The project was designated as a Top 100 project.

Responsibilities:

- In User Acceptance Testing (UAT), analyzed requirements to prepare the test cases and test data for testing and validation
- Prepared the Detailed Logical Day Plan (LDP) for assigning and completing activities from the different teams across regions
- Functioned as an UAT Coordinator for Onsite Manager, and actively participated in daily UAT calls
- Participated in similar activities in (Beta) live such as production testing, the task was to validate and co-ordinate the complete process

Environment: Terminal Emulator, QTP 8.0, Quality Centre, MS Office Suite

EDUCATIONAL QUALIFICATION

- MBA (Finance), Pune University, Pune, Maharashtra, India
- Bachelor of Engineering (EXTC), SGBAU, Amravati, Maharashtra, India

CERTIFICATIONS

- **MAPR certified Spark Developer – (MCSD Certification –** *Certificate available on LinkedIn profile***)**
- **Awarded the Claritas Investment Certificate by CFA Institute –** *(Certificate available on LinkedIn profile)*
- **ISTQB Certification**
- Cleared NCFM Certification in Financial Market with 91%