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**ASUTOSH SARANGI****Contact:** +91-9439482472**E-mail:** asutosh.sarangi1@gmail.com**Total Year of Experience:** 6 Years 1 Month

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Date: 25<sup>th</sup> Aug 2020

Asutosh Sarangi  
Senior Lead Engineer  
QuEST Global Engineering Pvt Ltd  
Bhubaneswar, Odisha

A result driven, articulate and analytical programmer analyst, strong in design and problem solving skills, experienced in data warehousing seeking a challenging position in data warehouse application development.

**Skills Profile**

- Having **6 Years 1 Month** of experience in IT industry as **Senior Lead Engineer** at **QuEST Global Pvt Ltd.**
- Strong technical background in **Spark, Teradata, Python and Unix.**
- 6 years of experience in Teradata, PL, SQL, Unix
- 4 years of experience in Hadoop eco system.
- 1.5 years of experience in Hive.
- 2.5 years of experience in Python, PySpark, Spark.
- 6 months hands on experience in Kafka with spark streaming and Scoop.
- Strong in Teradata utilities (TPT, Fastexport, Fastload, TPUMP, MLOAD, BTEQ)
- Ample knowledge of Autosys job scheduler, Tableau and Oracle.

**Roles And Responsibilities**

- Developing Python scripts for report generation from HDFS.
- Computation being done using Spark using PySpark.
- Working on Sqoop, Kafka, Spark Streaming for Data migration POC.
- Developing shell scripts for generating reports from Teradata.
- Teradata procedures for calculating parameters of financial reports.
- Teradata utilities (TPT, Fastload, Multiload, TPUMP, Fast Export, BTEQ) used for data export and load purpose.
- Developing Autosys jobs for scheduling.

**Technical Proficiency**

<b>Operating System</b>	Mac Os (UNIX), Windows 98/XP/Windows 7 and familiar with LINUX.
<b>Database (RDBMS)</b>	Teradata (16.10), Oracle (10g/11g), Spark SQL
<b>Language Skills</b>	Unix, Python
<b>Visualisation Tools</b>	Tableau
<b>Job Scheduling</b>	AutoSys
<b>Teradata Utilities</b>	BTEQ, Fastexport, Fastload, Multiload, TPUMP and TPT
<b>Big Data Tech Stack</b>	HDFS, Spark, Pyspark, Spark Streaming, Sqoop
<b>Messaging System</b>	Kafka

**Profession Experience**

Organization	Designation	Time Period
QuEST Global Engg Pvt Ltd (QuEST took over Exilant)	Senior Lead Engineer	June 2020-Till Date (1.2 Year + Cont...)
	Senior Software Engineer	April-2018-May 2019 (1.2 Year)

Exilant Technologies Pvt Ltd.	Programmer Analyst	April-2017-Mar 2018(11 months)
	Software Engineer	Sep-2015-Mar-2017(1.8 Year)
	Software Engineer Trainee	Aug-2014-Aug-2015(1 Year)

### Educational Details

Qualification	Institution	Board/University	Percentage	Year of passing
X	Chitrotpala High School, Odisha	H.S.C	81	2007
XII	Salipur College, Odisha	C.H.S.E	73.5	2009
B.Tech (Computer Science and Engineering)	Indira Gandhi Institute of Technology (IGIT), Sarang	BPUT	71.5	2013

### Key Projects Handled

#### #1

**Title** Informatica Decommission from royalty processing.  
**Organization** Exilant Technologies Pvt Ltd.  
**Client** Apple Inc  
**Team Size** 3  
**Duration** Nov-2014 to April-2015

**Description** As we noticed the processing which were done by using informatica was taking a long time processing, So it was decided to decommission the use of informatica from royalty processing to speed up the royalty processing. In replace to informatica, all the ETL related processing are done either using TPT or other utilities. The scripts are executed from normal host instead of informatica host.

**Contribution**

- Analysed scenarios for replacing Informatica with shell script call and TD TPT utility.
- Pre-Session and Post-Session of Informatica is also handled through shell scripting process in normal host instead of Informatica host.
- Carried out writing of Unix shell scripts and TD DMLs, TD procedures for inserting data and Oracle DMLs staging information of processed data.
- Used TPT utilities to generate .txt reports.
- Developed and documented data Mappings using various Transformations like Lookups, Source Qualifier, Joiner Transformation, Expression, Filter, Router, Aggregator, Update Strategy, Rank, Sequence Generator and more as per the requirements.
- Maintained warehouse metadata, naming standards and warehouse standards for future application development.

### Tools/Technologies Used

<b>Database</b>	Teradata, Oracle
<b>Database Utilities</b>	TPT, FastExport, Fastload, Multiload, BTEQ, SQL Loader
<b>Scheduling Tool</b>	Autosys
<b>Scripting Language</b>	Unix

#### #2

**Title** iTunes Financial Reporting (iTunes Store and Apple Music Royalty Reports)  
**Organization** QuEST Global Engineering Pvt Ltd + Exilant Technologies Pvt Ltd. (Quest took over Exilant on Mar 2018)  
**Client** Apple Inc  
**Team Size** 8  
**Duration** May-2015 to Till Date

**Description**

iTunes Financial (PX4) project is related to calculation of royalty and revenue amount which they will get or pay to their vendors which are providing digital contents(various songs, books, games or apps) to iTunes Store and Apple Music.

Apple Music is a live streaming introduced by Apple in Year 2015 both TRIAL (for 1<sup>st</sup> 3 months) and then PAID.

To support the continued growth of Apple Music, we will reduce the lead time required to set up new subscription plans and offers in the label royalty and reporting system. The set up of new subscription plans and offers should be automated and require no additional testing beyond the testing effort of this project. Configuration of new subscription plans and offers should be done only in the Pricing System, from which the other systems (e.g. PX4 and Core) will automatically read and implement the necessary changes.

Play activity data flows to Hadoop system. Data cleansing and data aggregation being done in Hadoop layer. There are daily and monthly reports being sent to down streams like right notes. As the monthly external reports(to Vendors) are being sent from Teradata System so monthly play and summary data being sent to Hadoop to Teradata System.

- Contribution**
- Involved in Designing DFDs and Design docs related to TD and Hadoop as well.
  - Analysed scenarios for calculating share for the Sound Exchange vendors from the royalty amount for the music vendors.
  - Worked on complex procedural logic to make sure business requirements are achieved.
  - All type of joins, window functions, complex aggregation using XML Aggregate/With Recursive are being used in data manipulation.
  - Prepared new end-to-end process set up for Apple Music Major Vendor royalty reports.
  - Carried out writing of Unix shell scripts and TD DMLs, TD procedures for inserting data and Oracle DMLs staging information of processed data.
  - Used TPT utilities to generate .txt reports.
  - Maintained warehouse metadata, naming standards and warehouse standards for future application development.
  - Involved in development and further changes of 2 Tableau dashboards.
  - Being involved in design for Hadoop side considering future data growth.
  - Worked on PySpark + Spark SQL to generate daily , monthly and quarterly processing.
  - Python used for scripting purpose.
  - Involved in writing Hive QL before SPARK migration.
  - Used windowing and analytical functions, Partitioning, Bucketing in hive to get better performance.
  - Complex logics being taken care using dataframe where lead,lag, Split , Explode etc were used.
  - Involved in performance tuning of some existing modules as data volume grows and uneven distribution happens after 2/3 years of initial go-live.

#### Tools/Technologies Used

<b>Database</b>	Teradata,Oracle
<b>Database Utilities</b>	TPT, FastExport, Fastload, Multiload, BTEQ, SQL Loader
<b>Scheduling Tool</b>	Autosys
<b>Scripting Language</b>	Python(For Hadoop side), Unix(For Teradata side)
<b>Visualisation Tools</b>	Tableau
<b>Big Data Tech Stacks</b>	HDFS, YARN, Hive, Spark SQL/Dataframe, PySpark

**#3**

**Title** iTunes Financial Reporting(POC on File System Validation + Data Migration and pipeline to Hadoop)

**Organization** QuEST Global Engineering Pvt Ltd

**Client** Apple Inc

**Team Size** 2

**Duration** Nov-2019 to July-2020

**Description** As in every alternative year there used to be Linux host change, so Dev team has to do complete file system validations(Owner,User,permission,file,folder structure etc) between existing host and new host. We have done a PCO to automate the manual validation process which will save 70% of time w.r.t manual activity.

Recently due to Apple's internal infrastructure change, iTunes Financial Hadoop data will be moved to other cluster. As part of this we have to do an onetime data migration activity from one cluster to another cluster. A POC is done to migrate data and as well as make both the system in sync with continuous data pipeline.

**Contribution**

- For file system validation POC, python being used to automate the activities.
- Pandas, re, shutil, glob, hashlib libraries are being used for automation.
- For data migration + pipeline POC, Sqoop being used for one time data migration activity.
- For continuous data ingestion, Kafka + Spark Structure Streaming are being used.

**Tools/Technologies Used**

<b>Scheduling Tool</b>	Autosys
<b>Scripting Language</b>	Python (For both POC)
<b>Big Data Tech Stacks</b>	HDFS, Spark Structure Streaming, PySpark, Sqoop
<b>Messaging System</b>	Kafka

**Personal Details**

<b>Gender</b>	Male
<b>Name</b>	Asutosh Sarangi
<b>Parents</b>	Father :Debasish Sarangi Mother : Anjana Sarangi
<b>Date of Birth(DD/MM/YYYY)</b>	05/06/1992
<b>Designation/Role</b>	Senior Lead Engineer
<b>Current Organization</b>	QuEST Global Engineering Pvt. Ltd.
<b>Current Location</b>	Bhubaneswar
<b>Notice Period</b>	3 Months
<b>Willingness To Relocate</b>	Yes
<b>Mail-Id</b>	asutosh.sarangi1@gmail.com
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