

DATA ENGINEER

S MURALI

☎Phone: +91 6383628699

✉email: selvarajmurali14@gmail.com

OBJECTIVE

In quest of a challenging position in the organization that offers me generous opportunities to explore & outshine as a Data Engineer while accomplishing personal, professional as well as organizational goals.

SYNOPSIS

Competent B.E professional around **10.4 Years** of work experience in Information Technology, with **4.1 years** as **Data Engineer in PySpark, Python, Hadoop, Bigdata, SQL, AWS and Azure cloud**. Previously associated with IRIS Software, Noida as a data engineer. Deep understanding of Computer applications domain with good quantitative, analytical & logic building abilities; Adroit at analysing the organization requirements, highly ethical, trustworthy and discreet.

- In-depth knowledge of the procedures of software development life-cycle.
- Possess working knowledge in **PySpark, Python, AWS S3, Glue, Lambda, Redshift, Hive, HBase, Oracle and Unix**.
- Profound experience in performing **Data Ingestion, Data Processing (Transformations, enrichment, and aggregations)**.
- Strong knowledge on Architecture of Distributed systems and parallel processing, in-depth understanding of MapReduce paradigm and Spark execution framework.
- Good exposure in **Finance domain**.
- Strong Experience in **Data Lake, Data warehousing and Business Intelligence**.
- knowledge in **OLAP** cubes.
- Knowledge in Data Visualization tool **Tableau**.
- Comfortable to work in a team and as an individual.
- Highly adaptable in quickly changing technical environments.

EXPERIENCE SUMMARY

- Previously associated with **IRIS Software, Noida** as a Data engineer from Aug 2022 to Apr 2023.
- Worked as a Data engineer in **Radiuscards Solutions, Bengaluru** from May 2019 to Aug 2022.
- Worked as a Hyperion developer in **Radiuscards Solutions, Bengaluru** from Jan 2019 to Apr 2019.
- Worked as a Software Engineer in **Cholamandalam Investment & Finance Company Limited, Chennai** from Jul 2016 to Dec 2018. (**Murugappa Group**).
- Worked as a Software Engineer in **Chola Business Service Limited, Chennai** from Jan 2013 to Jun 2016 (**Murugappa Group**).

PROJECT SUMMARY

| | |
|--------------------------------|---|
| Title # 1: | <u>Olympus</u> |
| Client: | Citi Bank |
| Role: | Data Engineer |
| Duration: | Aug 2022 – Apr 2023 |
| Team Size: | 12 |
| Language(s)/Tools Used: | PySpark, Python, Hive, HBase, AWS S3, Glue, Lambda, Redshift and sql. |

Description:

Objective of the Project was to setup of Enterprise Data Lake and Integrated Analytics platform to provide support for various uses cases such as Analytics and Machine Learning.

Key responsibilities:

- Responsible to import the data from different sources like HDFS into Spark and perform the computations using PySpark to generate the output response.
- Responsible to fetch the data from source location, create several dimension and fact tables and load the transformed data into different file formats in the EMR cluster.
- Responsible to write PySpark scripts to apply hard checks on data at record level to generate reports to the end users.
- Develop enrichment files by extracting only subset of data from source files and deliver to customer that helps them to have more data insights and make accurate business decisions.
- Perform end to end unit testing and document the results for each requirement story and review them with the test lead.

Title # 2: **FCA AIM (Analytics and Information Management)****Client:** FCA**Role:** Data Engineer**Duration:** May 2019 - Aug 2022**Team Size:** 08**Language(s)/Tools Used:** PySpark, Python, Hive, HBase, AWS S3, Glue, Lambda, Redshift and SQL**Description:**

The Financial Conduct Authority (FCA) is a financial regulatory body in the United Kingdom, but operates independently of the UK Government, and is financed by charging fees to members of the financial services industry. Like its predecessor the FSA, the FCA is structured as a company limited by guarantee.

Key responsibilities:

- Performed Import of Data from RDBMS to Amazon S3 using Talend ETL and then importing to HDFS and processing the huge amounts of Data.
- Involved in creating Hive tables, data loading and writing hive queries.
- Responsible for Optimizing Hive queries that helped in saving Cost to the project.
- Built distributed in-memory applications using Spark and Spark SQL to do analytics efficiently on huge data sets.
- Handled importing of data from various data sources, performed transformations using PySpark and loaded data into HDFS.
- Used spark transformations while moving the data to STAGING layer.
- Involved in working on the Data Analysis, Data Quality, and data profiling for handling the business that helped the Business team.
- Handle to manage and schedule Spark Jobs on a Hadoop Cluster and to trigger various Oozie workflows.
- Involved in performance optimization of Spark Jobs and designed efficient queries to query data from Hive.

Title # 3: **Treasury MIS****Client:** Kaizen**Role:** Developer**Duration:** Jan 2019 - Apr 2019**Team Size:** 09**Language(s)/Tools Used:** Oracle, ODI, Hyperion Essbase (OLAP), Hyperion Planning, OBIEE and SQL

Description:

This Data Warehouse Application handles the Treasury MIS system of the organization. The Hyperion planning cube was used where the data can even be loaded into the cube through the planning web forms. The data is extracted from the sources and further analysed and processed in the Staging Area, which is Oracle Database, and then the data is loaded into the Essbase cube using Essbase server Rule files. The data in the Essbase cube was aggregated using calc scripts. The data from the planning cube is reported in the form of charts and grids through Oracle Business Intelligence Reports.

Key Responsibilities:

- Finding the new masters in the source system.
- Addition of Data Master Members in Essbase Outline Hierarchy.
- Loading the data from stage database into Essbase cube (OLAP cube).
- Validate the report using OBIEE / SmartView based on source system.
- Identify, manage and resolve common system issues.

Title # 4: **Finance MIS**

Client: **Cholamandalam Investment & Finance Company Ltd**
Role: Developer
Duration: Apr 2014 – Dec 2018
Team Size: 06
Platform/OS Used: Unix/Windows
Language(s)/Tools Used: Oracle11g, ODI 11g, Hyperion Essbase (OLAP), OBIEE and SQL.

Description:

It is a Data-warehousing project where the data is taken from different sources using ETL tools, than analysed and processed in a Staging Area. The data from the Staging Area is loaded into the Essbase Cube using ELT tool Oracle Data Integrator. Business users drill and view the reports, charts in the dashboard developed using Oracle Business Intelligence, and data from the Essbase cube can be viewed using Smart-View and Essbase Add-in in Microsoft Excel. Scorecards were displayed for comparison and analysis of data.

Key Responsibilities:

- Responsible to develop and build the Operational Data Store (DWH) for the on-going operational support and maintenance of Hyperion business and OBIEE Applications.
- Developing the Business reports using the Business Intelligence Tool OBIEE.
- Loading data into Essbase cube (**OLAP**) from different systems using ETL tool.
- Addition of Data Master Members in Essbase Outline Hierarchy.
- Maintaining Finance application support including monthly performance reporting and analysis.
- Maintaining validation sheets & Exports for ASO & BSO cubes for customers to validate.

Title # 5: **Oracle Financials R12**

Client: **Cholamandalam Investment & Finance Company Ltd**
Role: Support Engineer
Duration: January 2013- Mar 2014
Team Size: 04
Platform/OS Used: Unix/Windows
Language(s)/Tools/ Packages Used: Oracle R12 Modules: GL, Payables, Receivables, Cash Management, Fixed Assets, SQL and OSB

Description:

This project is an ERP application of an organization. This is business process management software that allows an organization to use a system of integrated applications to manage the business and automate many back-office functions related to technology, services, and human resources.

Key Responsibilities:

- Created users, custom menu and responsibility, key and descriptive flex-fields, request groups and request set through System Administrator responsibility.
- Created FSG reports and templates comprising row sets, column sets and content sets for reporting purposes.
- Provided post-production Support to the End-Users on Standard Oracle Application modules (includes GL, AP, AR, CM, and FA) along with the Customized Oracle Apps.
- Responsible for monitoring data movement from various source systems into Oracle Applications using Oracle Service Bus (OSB).
- Responsible for troubleshooting and issue resolution with Oracle applications financial modules.
- Fixing issues in TEST environments and closely interacting with users for final testing before solution migration to PROD.

SOFTWARE PROFICIENCY

Technologies worked on: PySpark, Hadoop, Hive, HBase, Sqoop, Kafka
Languages: Python, SQL
Databases: MSSQL SERVER, Oracle, MySQL, Hive
NoSQL: HBase
Cloud: AWS S3, EMR, Glue, Lambda, Redshift

SCHOLASTIC CREDENTIALS

- **Bachelor of Engineering in Computer Science** from **Anna University** Chennai (74%, 2008)
- Diploma in Computer Technology from Directorate of Technical Education, Chennai (84%, 2005)
- X from Board of Secondary Education, Tamilnadu (94.2%, 2001)

PERSONAL DETAILS

Date of Birth: 14th Jan 1986
Languages Known: English and Tamil
Preferred Location: Anywhere
Passport Number: S9933650
Reference: Furnished upon request
Notice Period: Immediate Joiner

Place: Bangalore

Date:

(S Murali)