RAMESH.G
Senior Software Engineer

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PROFESSIONAL SUMMARY

- Having 7+ years of professional experience in Information technology with progressive experience in the Product development and implementation in the banking domain with Hadoop and SQL based solution.
- Good knowledge of Hadoop ecosystem, HDFS, Big Data, RDBMS.
- Hands on Experience in working with ecosystems like **Hive, Spark, Sqoop, Oozie**.
- Good understanding in analyzing big datasets and finding patterns and insights with in unstructured and structured data.
- Implemented Proofs of Concept on Hadoop stack and different big data analytic tools, migration from different databases (i.e. MSSQL, Oracle) to Hadoop.
- Involved in creating **Hive tables, loading with data and writing hive queries** which will run internally in map reduce way.
- Involved in developing Hive Queries to parse the raw data, populated external & managed tables and store the refined data in partitioned external tables.
- Capturing data from existing databases that provide SQL interfaces using Sqoop.
- Working extensively in developing **Spark, SAL** and **Streaming applications** using **Scala and Spark CLI.**
- Importing and exporting data in **HDFS and Hive using Sqoop.**
- Responsible for developing scalable distributed data solutions using Hadoop.
- Experience in database design using Stored Procedure, Functions, Triggers and strong experience in writing complex queries in MS-SQL.
- Experience in working with the Different file formats like **TEXTFILE, SEQUENCEFILE, ORC**, **Parquet, Feather** and **JSON**.

TECHNICAL SKILLSET

- **Languages**   : Python, C# (ASP .NET), PHP, Shell Scripting
- **Big Data/Hadoop technologies**   : Apache Hadoop (MR1, MR2), Apache Spark, Hive, HBase, Sqoop, Oozie workflow, Yarn & Zookeeper
- **Tools**   : SSAS, SSRS, SSIS, VS2012, MS Excel, VS Code
- **Scripting Language**   : Html, CSS, Angular, Java Script, jQuery
- **Operating Systems**   : Linux & Windows
- **Databases**   : NoSQL (HBase), MSSQL, MySQL
- **Web Services**   : REST, SOAP

PROFESSIONAL EXPERIENCE

- Working as Senior Software Engineer at FIS Global Business Solutions, Chennai from June'2015 to till date.
- Worked as Php Developer at Alphasoftz Solution Pvt Ltd, Chennai from April'2014 to May'2015.
- Worked as Php Developer at iStepz Software & Trading Pvt Ltd, Chennai from Feb'2013 to April 2014.

- B.E in Computer Science and Engineering from Roever Engineering College with First Class 6.8 CGPA on June 2012.

ORGANISATIONAL EXPERIENCE

Project#1:

Name: Operational Data Store (ODS):

Client: Bambu Bank

Description:

Operational data store is the staging area where data is being input from several sources in structured or unstructured format gets validated, transformed specific to business needs and then exported to a Data Warehouse or Database. Staging area data is made available only to a certain period as per the retention policy or application requirement. History data will be stored in a warehouse. The project aims at catering the customer needs of Big Data management with a view to growing volume of data in enterprises. This drives a key for open source technology migration.

Responsibilities:

- Developing the ETL workflow using Python scripts.
- Bulk importing of data from various data sources into Hadoop and transform data in flexible ways by using oozie and Sqoop.
- Export and Import data into HDFS, HBase and Hive using Sqoop.
- using Oozie to automate data loading into the HDFS.
- Writing report specific Spark script.
- Exposed in working with Spark Data Frames.
- Developing API for data serving to UI application.
- Integrate Spark with API to get data from hive database.
- Develop different report layout for bank needs.

Project#2:

Name: EIMS (Enterprise Information Management System) - Bank MIS/ADF Reporting application,

Description:

ADF (Automated Data Flow) is a new product to support the statistical requirements from RBI (Regulatory Bank of India). The product also provides MIS reports for the banking users. The main goal of this project is to implement Data Warehousing for the analysis and reporting purpose of the company. The robust metadata architecture eases new bank conversions.

Responsibilities:

- Involved in the development of UI production development.
- Worked on multiple Client/Bank Implementations like **BMB, Bandhan, Shivalik, ESAF, FINO, Suryoday, RGVN, DISHA, Intelli Group of Banks** Etc.,
- Involved in performance tuning activity to reduce the time for fetching data from 10 million records.

- Involve application security framework development activity to resolve the vulnerability issues.
- Tracking the performance of Client's Web Pages by identifying the successful visits to the pages.
- Identifying the prospective web pages, the customers move from a current page and the pages after which customers drop off.
- Involved in development of Audit Framework to monitor the user activity in the application and identify most used report and number of frequent visits to the application.
- Involved in the development of the Users Security Framework for providing Report & Section level access rights to the bank users.
- Involved in development of ticketing module which will be used by bank for Change/Service requests.

Project#3:

Name: EBT (Electronic Benefit Transfer):

Description:

Electronic benefit transfer (EBT) is an electronic system that allows state welfare departments to issue benefits via a magnetically encoded payment card, used in the United States. The average monthly EBT payout is $125 per participant. Common benefits provided (in the United States) via EBT are typically of two general categories: food and cash benefits. Food benefits are federally authorized benefits that can be used only to purchase food and non-alcoholic beverages. Food benefits are distributed through the Supplemental Nutrition Assistance Program (SNAP), formerly the Food Stamp Program. Cash benefits include state general assistance, Temporary Assistance for Needy Families (TANF) benefits and refugee benefits.

Responsibilities:

- Worked on development of a User Interface for the user to view text-based reports, Search & also can be navigated based on search.
- Provided Custom Pagination based on the auto generated page numbers and the users can view up to 1 Lakh pages (Around 60 Lakh records)
- The Reports should be available to the user based on the rights which needs to be fetched by accessing a REST API.
- The reports should display the last 7 dates of the availability.
- The Complete application doesn't use any Database and fully Driven by files.

Project#4:

Name: IGEN – Adhoc Reporting:
Client: SID
Description:

I-Gen is the tool used to generate and design the own report by the end user. It has the own self capability to regenerate the Tabler report and user can store the report for reuse as well as regenerate. Also, can able to publish as report to the other user within the organization.

Responsibilities:
- Worked on development of the User Interface for creation of On-demand reports by the user.

- The user can dynamically create universes, select fields for report by joining 2 universes, Specify Aggregation functions & Filters to generate the report.
- The user can also save the Query generated, report and publish it directly to MIS portal, so that the report can be accessed by the user readily on demand.
- Worked on download functionality for the users to download the generated report in Excel& PDF.

Project#5:

Name: UI Reporting Framework

- Worked on development of the User Interface for showing reports in the screen with Grids.
- Framework for Dynamic Filter selection & dynamic grid building.
- Report will be rendered based on the configuration meta data available in the table.
- A separate screen for creating the configuration of the reports.
- The Header names can be grouped up to 3 levels.
- The report data can also be grouped to multiple levels along with subtotal & grand total.

Project#6:

Name: INTRA Tool

- Involved in development of ticketing module which will be used by bank for Change/Service requests.
- The Created tickets will have automatic addition of tasks based on the Function Point Analysis.
- This tool also involves Resource monitoring & resource utilization based on the ticket task acceptance time & completion time
- Worked on development of reports (i.e.) Burndown Charts, Resource Utilization, Project Costing based on resources etc.

WEB APPLICATIONS

1. HOSTEDCRM:

HostedCRM is a Centralized CRM application and it will be flexible for all kind of Large, Medium and small-scale industries and Companies. Its features are: Manage Clientele, Lead Management, Stock Maintenance, Quotation Management, Invoice Generation, Payable, Receivables, Outputs- Chats & Tables, Excel Files, PDF, and email. Third Party SMS and EMAIL services are included in this application.

2. VIRKOH Facility management:

Virkoh is a facility management company; they provide facility management services to most of the MNC Company. The project is to manage their client information, employee management, attendance management, for the employees in site and salary management for the site employees. And query processing, lead management system for the new lead and client order placing option for the house hold products they sell, multiple user levels with Re-Imbursement option and accounts management.

3. Exotic Power solutions:

Exotic power solutions also called as Izone is a battery and inverter supplier in TamilNadu. The application developed for the Izone is based on Invoice and Quotation and the salary management and petty cash management. The quotation management for the product they sell and warehouse management for the goods, shipment management, Invoice management, Delivery Chelan, Lead management, purchase order, AMC and Service management.

4. Call Driver Application:

The application developed for the Royalcall drivers is based on call driver booking system used to manage bookings, manage customer details, assign the drivers based on the customer area, manage drivers details like attendance report, overall booking for individual drivers and multiple user levels with SMS integration.

5. Haiticket:

Haiticket is an online recharge portal where the users can recharge their Mobile, DTH and Data card. The site is integrated with PAYU online payment merchant. This is a dynamic site where admin can able to change the details in the site dynamically. This site also contains B2B process where there will be 5 types of user regional partner, channel partner, distributor and agents. Based on the commission margin assigned by the admin to the user they will get commission and I have also integrated the long code option for the agents to recharge where they can recharge the number through their number. This site is under construction for the BUS and Flight Booking.