PRASANTA DAS

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Professional Summary:

- **14.5 years** of overall IT experience in Application Development in **JAVA/J2EE** and **Big Data Hadoop with Spark & scala**.
- **4 years** of exclusive experience in Spark & scala including ,Hadoop and its components like **HDFS, Map Reduce,Hive,Kafka, Sqoop**
- Extensive Experience in Setting up Hadoop Cluster
- Good working knowledge with **Map Reduce,Spark** and **scala**
- Architect for new machine learning model scoring service with ability to serve models developed in **spark&scala**.
- Contributed to machine learning algorithms to generate model insights and audit ability for regulatory compliance.
- Supported Data Scientists with ad-hoc and production algorithms for feature analysis and selection. Provided dashboards and automated reports for business stakeholders.
- Developed and deployed several models evaluating risk of a loan applicant, including models for new loans.
- Have executed projects using Java/J2EE technologies such as Core Java, EJB,JMS, Servlets, Jsp, Struts. Spring & Hibernate
- Expertise in application integration with middleware technologies MQ Series and Web Services
- Strong and extensive experience in middleware programming with **JMS, EJB 2.1**. Experience in programming Web Applications and Web Services(**SOAP & Restful**) using J2EE Technologies
- Experience in developing and deployment of Enterprise & Web applications in Weblogic 12C,, Webspace 7, JBoss 3.2.3 &Tomcat 5.
- Good understanding of IBM Web Sphere Application Server, Apache Tomcat, WebLogic & JBoss in the areas of development, deployment, configuration settings and deployment descriptors.
- Strong ability to translate non-technical user needs/requirements into technical requirements
- Experience with writing database programming using Oracle SQL and PL / SQL
- Experience with various IDE's for development of project (RAD and Eclipse) and efficiently worked on version controlling systems like PVCS,VSS & RTC4
- Very strong experience in complete life cycle of WebSphere & Weblogic Application Server. Administration like installation, Configuration, Deployment, Scripting, Migration, and Trouble shooting on Solaris 10, Aix 5.3/5.2, Windows 12C.
- High probability of resolving the issue with the SLA with proper Root Cause Analysis done and documented for the future references
- Excellent at planning and developing optimized software applications
- Team management, tasks allocation & team's performance tracking.
- Able to work independently, as part of a team, or leading a team
- Knowledge on **PIG,HBase**,**MongoDB,Oozie**

Professional Experience:

- Worked as Senior Associate in **TIAA GBS India Pvt Ltd**, Mumbai, India since from Sep 2017 to May 2020.

- Worked as a Technical Lead in **Capgemini India Pvt Ltd**, Mumbai, India since Oct 2014 to Sep 2017.
- Worked as a Senior Project Lead in **Polaris Software Lab Ltd**, Mumbai from Jan 2006 to Oct 2014.
- Worked as a Software Engineer in **Atos Origin India Inc. Pvt. Ltd** ,Mumbai from Aug 2005 to Jan 2006.

Qualifications:

📖 Master of Computer Applications (**MCA**) in 2003 scoring 65% from IISIT, Utkal University ,Orissa

Technical Skills:

Languages	Java,JavaScripts,AngularJS,XML,XSD,DTD,XSLTXSL,Apache Spark, scala, Sqoop, Hive,Mapreduce
J2EE Technologies :	JSP, Servlets, JDBC ,EJB 2.1 & EJB 3.1
Servers	IBM Web Sphere Application Server 7, IBM MQ server 7.0 , WebLogic12C, ATG dynamo 7.0, JBoss-3.2.3.
Frameworks	Struts, Spring, Hibernate, Hadoop & Spark, Kafka
Java IDEs/Tools	Cloudera,RAD,Eclipse.JBuilder,WSAD5.0,NetBeans,WebsphereMQ Explorer, TOAD & SQL Developer.
Version Control / Tracking Tools	RTC, SVN, PVCS,VSS,GitHub
Databases	Oracle 12C and PL/SQL.
Design Skills	J2EE design patterns, Object Oriented Analysis and Design (OOAD), UML.
Operating Systems	Windows12C,Solaris 10, Aix 5.3/5.2
Domain	BFS
Others	Gradle,Junit, Maven ,Ant, SFTP,PUTTY

Project Details:

PROJECT #1:

Project Name : Output Management

Client : TIAA

Duration : Sep 2017 to May 2020

Role : Individual contributor

Environment: *Hadoop,Spark 2.0.2 (Core,Mlib,SQL,Streaming), HDFS, Hive-0.13.1,*

Sqoop1.4.5,Kafka2.10, Oracle,GitLab,Gradle, Jenkins, Cloudera5.8, Unravel, Autosys

Unix, Serena, Windows,Putty.WinScp,MQFTE.

Description:

A Reconciliation and Regulatory communications platform Project. It receives transactional information from multiple upstream applications, applies business logic in HDFS, processes it in the desired format for downstream and sends out the actual communication to the end user. It converts different forms of data coming in from different sources into common homogeneous structure and stores the information for reconciliation. This gives Business Users a brief understanding as well as analytical abilities and trends regarding various communications and help in Auditing the communications

Roles and Responsibilities:

- Responsible for building scalable distributed data solutions using spark and scala
- Create Hive table on top of data created in Spark..Working on them for data analysis in order to meet the business requirements.
- Creating Detailed Design – High Level Design, Low level design and BA/User Interaction for technical implementation
- Development of modularized code with TDD approach
- Create test cases for Unit Testing using Scala test.
- Developing Scripts and Batch Job to schedule various Hadoop Program
- Active participation in story-sizing, story-grooming and adhering to SAFe Agile Methodology.
- Maintenance of Project Infrastructure including Gitlab, Jenkins, Artifactory with the help of Dev-ops..
- Written Hive queries for data analysis to meet the business requirements.
- Creating Hive tables and working on them using Hive QL.
- Experienced in managing and reviewing Hadoop log files.
- Designed and Implemented Partitioning (Static, Dynamic), Buckets in HIVE
- Moving data from Oracle to HDFS and vice-versa using SQOOP
- Developed Spark Streaming integrated with Kafka to process online Avro/JSON data.
- Perform root cause analysis on failures. Resolve performance tuning related issues and queries
- Working experience in Unraevl APM to fine tuning Spark application jobs for performance improvements.
- Migration of hive/pig

PROJECT #1:

Project Name   : Credit Data Warehousing (CDW)

Client   : HSBC, USA

Duration   : Mar 2016 to Sep 2017

Role   : Individual contributor

Environment: *Hadoop,Spark 2.0.2 (Core,Mlib,SQL,Streaming), HDFS, Hive-0.13.1, Sqoop1.4.5,Kafka2.10, DB2, MQ series,Webservices(JAX-RPC), RTC, Maven, Jenkins, Cloudera5.8, Windows,Putty,Websphere8.5,RAD8.5,Java/J2ee.Spring JDBC.*

Description:

The CDW is part of the Credit & Finance System strategic Development Program (CFS-SDP). It is developed to store data to meet reporting requirement for the Assessing capital Adequacy in relation to risk. Credit Data Warehouse is DB2 data mart that feeds data to

other system and also receives data from them. The data is then used for reports for compliance and for decision-making.

The goal of CDW is to
- Satisfying requirement set forth by the USA Federal Reserve Letter SR99-18 by the New Basel Capital Accord (BASEL) for both the standard and IRB approach.
- Internal Area entity and group reporting.
- To store Credit Data for commercial products at a detailed level.
- To store Retail products data at a "rolled up" portfolio level.
- To store Treasury and factoring credit data.
- The local credit data mart will eventually be the source of data into GLEAM.

Roles and Responsibilities:

- Responsible for building scalable distributed data solutions using spark and scala
- Installed and configured Pig for ETL jobs. Written Pig scripts for data cleaning.
- Create Hive table on top of data created in Spark..Working on them for data analysis in order to meet the business requirements.
- Developing prediction model of loan risk in banks using machine learning algorithm for classification and regression
- Used various machine learning algorithms such as LinerRegressionWithSGD,Logistic Regression, Support Vector Machine, Decision Tree, Random Forest
- Developed Spark Streaming integrated with Kafka to process online data from fron end to calculate subjective scorecard for new loan as well as for existing loan and displaying percentage score in front end
- Imported data using Sqoop to load data from DB2 to HDFS on regular basis.
- Developing Scripts and Batch Job to schedule various Hadoop Program.
- Written Hive queries for data analysis to meet the business requirements.
- Creating Hive tables and working on them using Hive QL.
- Experienced in managing and reviewing Hadoop log files.
- Developed Hive queries and UDFS to analyze/transform the data in HDFS.
- Developed Hive scripts for implementing control tables logic in HDFS.
- Designed and Implemented Partitioning (Static, Dynamic), Buckets in HIVE.
- Moving data from DB2 to HDFS and vice-versa using SQOOP.
- Collecting and aggregating large amounts of log data using Spark Streaming and staging data in HDFS for further analysis.
- Designed to ease processing large amount of structured tabular data on Spark for complex report
- Developed Pig scripts and UDF's as per the Business logic.
- Analyzing/Transforming data with Hive and Pig.
- Developed the messaging adapters to be used with integration MQ server and WMQ for communication between different components
- Developed the frontend application using JAVA,,Spring, ,JMS and MQseries
- Developed Worked on installing cluster, commissioning & decommissioning of data node, NameNode recovery, capacity planning, and slots configuration.
- Involved in loading data from Linux file system to HDFS.

PROJECT #2:

Project Name	: ICICI – CMART
Client	: ICICI Bank, India.
Duration	: Oct 2014 to Feb 2016
Role	: Technical Lead

Environment: *Hadoop, MapReduce, HDFS, Hive, Pig, Sqoop, Oozie, AVRO, Oracle 12C, Java, Struts,Spring,Hibernate Angular JS, XML, Restful(JAX-RS),PL/ SQL, Weblogic 12C, Birt Reports, Maven,Jenkins, Unix*

Description:

ICICI Credit Middle Office Group (CMOG) is looking to leverage technology to automate its "Loan Processing and Monitoring System". Presently ICICI CMOG is using 2 different systems CMART and CCM to process and monitor the loans its events, activities, computing GOI and reporting. Also their current OSG activity is managed manually through Excel-Sheet. As part of this initiative, CMOG is making efforts to provide a platform which can be used to "Automate" the process by developing/revamping solution which provides User Interface, creation and monitoring of process flow, automated triggers for subsequent approvals with enhancement in reporting capabilities followed at ICICI.

Roles and Responsibilities:

- Moved data flat files generated from different sources to HDFS for further processing.
- Written the Apache PIG scripts to process the HDFS data.
- Created Hive tables to store the processed results in a tabular format.
- Developed the sqoop scripts in order to make the interaction between Pig and Oracle Database.
- Involved in gathering the requirements, designing, development and testing
- Writing the script files for processing data and loading to HDFS
- Writing CLI commands using HDFS.
- Installed and configured Hive and also written Hive UDFs.
- Developed the shell scripts for creating the reports from Hive data.
- Completely involved in the requirement analysis phase.
- Analyzing the requirement to setup a cluster
- Created two different users (hduser for performing hdfs operations and map red user for performing map reduce operations only)
- Setting up cron job to delete hadoop logs/local old job files/cluster temp files
- Setup Hive with Oracle as a Remote Metastore
- Moved all interface files generated by various products into HDFS location
- Written Map Reduce code that will take input as interface files and parse the files and structure them in tabular format to facilitate effective querying on the files data
- Created External Hive Table on top of parsed data.
- Creating reports using BIRT tool for report generation.
- Installed Oozie workflow engine to run multiple Hive and Pig jobs.

PROJECT #3:

Project Name	: HSBC-Payable Financing
Client	: HSBC, HK.
Duration	: Nov 2009 to Oct 2014
Role	: Project Lead

Environment: J2EE (Servlet,EJB, JMS), XML,Hibernate, Spring,Websphere 7.0,IBM MQseries,SQL, Oracle 11g, Eclipse 3.3, Ant, Jacl,Python,PVCS, Solaris 10,Windows XP,SOAP,SFTP, IBM Mustgather.

Description:
Payable Financing (PF) is a proposition where a large Payor(Who is a customer of bank), sponsors the financing of its payable to its strategic Beneficiaries through the bank. The PF system will allow

the customer of HSBC bank to electronically submit Payment files involving PF instructions and allow tracking the status of the transaction.

Responsibilities:
- Technical Design and Development, Application Analysis of java based enterprise applications.
- Designed the provisioning workflow using XML, XSLT,EJB, Spring, hibernate, JMS and MQ series technologies
- Analyze and come up with quickest possible solution in the most expedient way for production incident
- Attend meetings with customer as required to ensure customer needs are met and successfully deliver all assigned projects
- Decide on escalation and engaging other teams by severity and complexity of the production incident
- Reviewed the work products thoroughly and coordinate the review meetings with peers to ensure the accuracy of the deliverables
- Collect user requirement from customer and design system to fit user requirements
- Worked with JDBC and modified SQL Queries for better performance
- Developed SQL queries and stored procedures for the application
- Provided assistance to other developers in developing backend functionality and in writing SQL queries
- Prepare Status update and release plan
- Worked with the team members to create High Level design, detailed design to be implemented in JAVA, EJB,Spring,Hibernate, XML and MQseries environment and estimate the level of effort
- Used Python and JACL scripts to automate the administration tasks including configuring, deploying, and maintaining middleware applications on WebSphere platforms
- Creating new and change existing report using Polaris standard development tool Intellectual Report for report generation
- Responsible for setting up the testing and development environment by configuring various tools
- Performed tracking of defects using Orbisolve 10.1. (Defect tracking tool)
- Responsible for Release Management to Integration Environment
- Worked closely with SQA to ensure high quality and timely releases
- Involved in PSR and CAM Meeting

PROJECT #4:

Project Name   : Cash Management System (e-Dividends System)
Client   : Maybank, Malasiya.

Duration   : Feb 2008 to Nov 2009

Role   : Developer
Environment: J2EE (JSP, Servlet, EJB, JMS), XML, Weblogc7.0, IBM MQ servers 6.0,

SQL, Oracle 9i, Eclipse 3.3, Ant, PVCS, Solaris 10, Windows XP, SFTP

Description:

Dividends System is used for processing dividend payment requirements of a typical corporate customer of a bank. It has both electronic and physical paper based (like Dividend Warrants and Internal Funds Transfer) payment channels and integrates with the bank's system.

Responsibilities:
- Single point of contact for the client

- Analyze and come up with quickest possible solution for production incident
- Designed the provisioning workflow using Java,Servlet,JSP,XML, ,EJB,SQL,PL/SQL,JMS and MQseries technologies.
- Used Ant scripts for development and deployment
- Integrated the Java application to end-users
- Developed SQL queries and stored procedures for the application
- Responsible for setting up the testing and development environment by configuring various tools
- Responsible for Release Management to Integration Environment
- Involved in PSR and CAM Meeting
- Worked closely with SQA to ensure high quality and timely releases
- Extensively involved in identifying root cause for the application bugs

PROJECT #5:

Project Name   : **Church Financial Accounting and Reporting System(CFAR)**

Client   : LDS, USA.

Duration   : Jan 2006 to Feb 2008

Role   : Developer

Environment: J2EE (JSP,Servlet,EJB), XML,WebSphere6.0,SQL, Oracle 9i, Eclipse 3.3, Ant,

PVCS, AIX 5.3,Windows XP, Shell Scripts, Java Scripts

Description:

The Church of Jesus Christ of Latter Day Saints is a worldwide organization headquartered in Salt Lake City, Utah, USA. The Church has many units spread around the world through which the members interact with the Church. During the regular meetings in these units, the members may make donations to the Church. The unit may also incur expenses from time to time for various reasons.

The Church Financial Accounting and Reporting system (CFAR) is a system used for maintaining some of the financial information of the Church as well as the local units and church related entities in the USA and Canada.

Responsibilities:
- Implemented MVC design pattern using Servlets, Java Beans and JSP
- Involved in developing applications using Java, J2EE, EJB, JSP and Servlets
- Used Java Script for Client side validations
- Developed SQL queries and stored procedures for the application
- Developed EJBs for business logic
- Worked closely with SQA to ensure high quality and timely releases
- Responsible for setting up the testing and development environment by configuring various tools
- Responsible for Release Management to Integration Environment.
- Extensively involved in identifying root cause for the application bugs
- Involved in PSR and CAM Meeting.

PROJECT #6:

Project Name   : Pampers

Client   : P&G, USA.

Duration   : Aug 2005 to Jan 2006

Role   : Developer

Environment: Java, Eclipse, Macromedia Dreamweaver, JSP, Servlet, Oracle9i, Struts,

HTML, CSS, XML, VSS, ATG Dynamo 7.0.

Description:

Pampers is a brand of baby products marketed by Procter & Gamble. Pampers was at one time only used as a name for a disposable diaper. Pampers is the best diapers for baby. It is very world famous diapers and number one selling brand name in the India and abroad

Responsibilities:

- Used ATG framework for design and implementation
- Involved in developing applications using Java, J2EE and Struts
- Created the UI validations using Struts validation framework
- Involved in developing applications using Java, J2EE, Apache Struts and ATG Dynamo Web application to create fully- integrated system
- Extensively involved in identifying root cause for the application bugs