**Prapul Reddy**

# Phone#:(901)-206-7501•E-mail:[mprapulreddy@gmail.com](mailto:mprapulreddy@gmail.com)

SUMMARY:

* Overall 7 years of experience in IT industry which includes **24 months** of experience in development using **Big Data and Hadoop ecosystem** tools**.**
* 4 Years of experience in the Application Development and Maintenance of **SDLC** projects using various technologies such as **Java/J2EE, JavaScript and Data Structures**.
* Good understanding/knowledge of Hadoop architecture and various components such as HDFS, Job Tracker, Task Tracker, Name Node, Data Node and Map Reduce programming paradigm.
* Experience in writing **PIG** scripts and **Hive** Queries for processing and analyzing large volumes of data.
* Knowledge in using **Map Reduce** programming model for analyzing the data stored in HDFS and experience in writing **Map Reduce** codes in Java as per business requirements.
* Experience in importing and exporting data using **Sqoop** from **HDFS** to Relational Database Systems and vice-versa.
* Expert in creating **PIG** and **HIVEUDFs using java** in order to analyze data sets.
* Used **Hbase** in accordance with PIG/Hive as and when required for real time low latency queries.
* Good understanding of **HDFS Designs, Daemons, federation** and **HDFS** high availability **(HA).**
* Hands on experience in installing, configuring and using ecosystem components like Hadoop **Map Reduce, Hive, Sqoop, Pig, HDFS, Hbase, ZooKeeper, Oozie, and Flume.**
* Experience in installation, configuration, supporting and managing - CloudEra's Hadoop platform along with **CDH3&4** clusters.
* Worked with **BI** tools like Tableau for report creation and further analysis from the front end.
* Good knowledge on **NOSQL** Data bases such as **Cassandra** and **Mongo DB**.
* Extensively worked on data extraction, Transformation and loading (**ETL**) data from various sources like Oracle, SQL Server and flat files.
* Strong experience in **Data Warehousing and ETL** using Informatica Power Center.
* Well versed in developing the complex **SQL** queries, unions and multiple table joins and experience with views.
* Experience in preparing and executing **unit test plan and unit test cases** after software development.
* In depth understanding of **data structures** and algorithms.
* Used Web services AWS and EC2.
* Experience in working with Windows, UNIX/LINUX platform with different technologies such as **Big Data, SQL, XML, HTML, Core Java, C#, ASP.NET, Shell Scripting** etc.
* Strong understanding in Object-Oriented Programming concepts and implementation.
* Strong knowledge of **Software Development Life Cycle (SDLC)**.
* Experience in giving training and guiding new team members in the Project.
* Experience in detailed system design using use case analysis, functional analysis, modelling program with class & sequence, activity and state diagrams using UML and rational rose.
* Written documentation to describe program development, logic, coding, testing, changes and corrections.
* Proficient in Retail, Telecom and Banking Domains.
* Very good experience in customer specification study, requirements gathering, system architectural design and turning the requirements into final product.
* Experience in interacting with customers and working at client locations for real time field testing of products and services.
* Ability to work effectively with associates at all levels within the organization.
* Strong background in mathematics and have very good analytical and problem solving skills.

Solutions:

The following are some of the solutions I Analyzed, Managed, Designed, Developed and Delivered in my career.

* Big data solutions and analytics using **Hadoop** ecosystem.
* Client facing Web Applications using Java/J2ee.
* Data pattern analysis and prediction using tools such as R and SAS.
* Data loading requirements using ETL.
* Batch Applications using Java batch, Shell scripts and TWS.
* User Interface development using Windows Presentation Foundation in Visual Studio.

Technicall Skills:

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| --- | --- |
| **Languages:** | C, Java, SQL, C# and Python. |
| **Web Technologies:** | J2EE, JMS, Web Service, |
| **Big Data Eco System:** | HDFS, Map Reduce, Hive, Pig, HBase, Sqoop, ZooKeeper, Oozie, NOSQL and Flume. |
| **Scripting Languages:** | HTML, JavaScript, CSS, XML and Ajax |
| **Frame Work:** | State Machine, Struts |
| **Distributed Technologies:** | RMI, EJB |
| **Operating system:** | Windows, Linux and Unix |
| **DBMS / RDBMS:** | Oracle 11g, SQL Server, and DB2, Amazon EC2, and NoSQL |
| **Tools:** | Eclipse, Microsoft Visual Studio (2008,2012), Flex Builder, Informatica Power Center 8.6/8.1, Data stage , and MS SQL Server . |
| **Version Control:** | SVN, CVS and Rational Clear Case Remote Client V7.0.1 |
| **Tools:** | FileZilla, Putty, Squirrel SQL Client, PL/SQL Developer, JUnit,  SQL Oracle Developer, Cobertura and PMDSummary |

Professional experience:

Western Digital Corporation, Mountain View, CA Sep 2013 – Till Present

*Position:* **Hadoop Developer**

***Project Description:*** Western Digital Corporation (WDC) provides cost-effective solutions for the collection, management, protection and use of digital information. WD is a long term innovator and storage industry leader. High volume of sales and finance data from users, clients and other networks is streamed daily and the data is loaded into Hadoop Cluster. The Data is used for analyzing the business needs and identifying the trends, and requirements in different ways.

***Responsibilities:***

* Good understanding and related experience with Hadoop stack-internals, Hive, Pig and Map/Reduce.
* Deep understanding of schedulers, workload management, availability, scalability and distributed data platforms.
* Contributed in storing the large data sets into NoSQL databases such as MongoDB and Cassandra.
* Installed and configured Hadoop MapReduce, HDFS, developed multiple MapReduce jobs in Java for data cleaning and pre-processing.
* Involved in data extraction from high-scale or distributed RDBMS like Teradata and Oracle.
* Involved in loading data from UNIX file system to HDFS.
* Wrote MapReduce jobs to discover trends in data usage by users.
* Used Map Reduce JUnit for unit testing.
* Involved in managing and reviewing Hadoop log files.
* Involved in running Hadoop streaming jobs to process terabytes of text data.
* Load and transform large sets of structured, semi structured and unstructured data.
* Wrote pig UDF’s.
* Develop HIVE queries for the analysts.
* Implemented Partitioning, Dynamic Partitions, Buckets in HIVE.
* Exported the result set from HIVE to MySQL using Shell scripts.
* Used Zookeeper for various types of centralized configurations.
* Involved in maintaining various Unix Shell scripts.
* Implemented Fair schedulers on the Job tracker to share the resources of the Cluster for the Map Reduce jobs given by the users.
* Automated all the jobs starting from pulling the Data from different Data Sources like MySQL to pushing the result set Data to Hadoop Distributed File System using Sqoop.
* Used SVN for version control.
* Helped the team to increase Cluster from 25 Nodes to 40 Nodes.
* Maintain System integrity of all sub-components (primarily HDFS, MR, HBase, and Flume).
* Monitor System health and logs and respond accordingly to any warning or failure conditions.

***Environment:*** Hadoop, HDFS, Map Reduce, Hive, Pig, Sqoop, NoSQL, Cassandra, MongoDB, Java 1.6,and UNIX Shell Scripting.

Snap-on Incorporated, Rich field, OH June 2012 – Aug 2013

*Position:***Hadoop Developer**

***Project Description***: Snap-on Incorporated is a leading global innovator, manufacturer and marketing tools, equipment, diagnostics, repair information and systems solutions for professional users performing critical tasks. It offers various products and services. Snap-on also derives income from various financing programs to facilitate the sales of its products. Snap-on has been accumulating huge amount of data from different sources. It is used to get useful information through Big data and Hadoop ecosystem tools to provide valuable inputs to the important business decisions.

**Responsibilities:**

* Installed and configured Hadoop Map Reduce, HDFS, Developed multiple Map Reduce jobs in java for data cleaning and preprocessing.
* Extracted data from oracle database and spreadsheets and staged into a single place and applied business logic to load them in the central oracle database.
* Used Informatica Power Center for extraction, transformation and load (ETL) of data in the data warehouse.
* Implemented performance tuning logic on targets, sources, mappings , sessions to provide maximum efficiency and performance.
* Importing and exporting data into HDFS and Hive using Sqoop.
* Experienced in defining job flows.
* Experienced in managing and reviewing Hadoop log files.
* Involved in loading data from UNIX file system to HDFS.
* Experienced in running Hadoop streaming jobs to process terabytes of xml format data.
* Load and transform large sets of structured, semi structured and unstructured data.
* Responsible to manage data coming from different sources.
* Got good experience with NOSQL database.
* Supported Map Reduce Programs those are running on the cluster.
* Involved in loading data from UNIX file system to HDFS.
* Installed and configured Hive and also written Hive UDFs.
* Involved in creating Hive tables, loading with data and writing hive queries which will run internally in map reduce way.
* Installed and used web services AWS and EC2 for hosting servers and applications.
* Also worked on data mining tools like SAS , R and Mahout to transform data for predicting meaningful patterns in the raw data.

***Environment*:**

**Hadoop, MapReduce, HDFS, Hive, Java (JDK 1.6), Eclipse, Informatica, Oracle DB, MySQL ,Ubuntu, R, SAS and Mahout.**

First Data Resources, Omaha, NE Aug 2011 – May 2012

*Position:***Senior Java/J2ee Developer**

***Project Description:***eCS (eCustomer Service) application enables the card holders to access their accounts via Internet. Card Holders can sign-in to a secure Web site to perform account maintenance such as viewing/updating account information, access transaction history and monthly statements, and can request specific services. eCS supports multiple delivery methods such as hosting by First Data, HTML and XML for Card Issuers to support their cardholders activities. eCS also provides Online Service for Commercial Card to its customers/banks that does Commercial Card business. Commercial Card program administrators can manage and monitor their programs via the eCS Commercial Card Administration, a secure reporting web site, and features.

**Responsibilities:**

* Gathered requirements, designed and implemented the application using Java/J2EE technologies.
* As technical team lead for a 4 member team ensuring that Software Development Life Cycle is in place with project deadlines and delivers high quality code.
* Implemented Hibernate and spring to replace EJBs and Struts respectively in the earlier architecture.
* Involved in designing ER diagrams using Erwin Data Model Tool.
* Involved in Container/System maintenance which involves build, deployment, configuration of servers, trouble shooting on the server issues, analyzing the application server performance tool WILY logs, identifying the bottlenecks in the system and fine tune them with appropriate directions and performance improvements.
* Involved in preparing use-case diagrams, sequence diagrams and class diagrams using Rational Rose, UML.
* Involved in writing complex SQL queries, Stored Procedures in PL/SQL to access the data from Oracle database.
* Played a pivotal role in identifying the bottlenecks and possibilities of running in to issues with the change requirements and proposed implementation of the project modules. Take appropriate action to save cost for the clients.
* Involved on 24X7 production support.
* To provide suggestions for various development and enhancement projects in FDR.

***Environment:* Core Java, JSP, Servlet, EJB, JSF, Spring Frame work, Struts, Web Services, XML, ANT, Hibernate, Oracle 10g, HTML, JavaScript, Shell Script, Sun Solaris10, Rational Rose, Rational Clear Case, Web Sphere6.1 and Sun One web server.**

The Home Depot, Atlanta, GA Nov 2010 – July 2011

*Position:***Java Developer**

*Project:***External Point of Sale**

The goal of this project is to provide a web service (XPOS) available to external vendors (i.e., outside of the THD network) and internal, non-store clients, that will process payments for existing Special Orders in the Special Services system. XPOS will act as a bridge to the POS owned RTWS (Retail Transaction Web Service) on each store ISP and will be utilized for tendering a payment

***Responsibilities:***

* Requirements Study, Software Development Specification, Development and Unit Testing use of Junit
* Generate code coverage report use of Emma and PMD
* Ensuring quality (Metrics, cohesion, coupling and etc.) is maintained in the project deliverables
* Active co-ordination and communication with onsite counterparts

***Environment:* Java, Java Batch, Restful Service, JAXB, Junit, and Informix**

Ameriprise, Minneapolis, MN June 2009 - Oct 2010

*Position:***Java/J2EE Developer**

Ameriprise financials offers a variety of products and services which can be broadly classified as Financial Planning, Investments, Cash/ Cards & Lending and Insurance & Annuities. Enrolling into a new investment plan, managing an account online are some of the features that are provided by Ameriprise Financial site.

***Responsibilities:***

* Responsible for gathering business requirements, writing technical specifications.
* Participated in technical design reviews and actively involved in Functional Design.
* Created UML diagrams to capture architecture and application design.
* Developed UI and backend applications using Struts, Hibernate, Java, EJB, JSP, HTML, DHTML, JavaScript, and AJAX.
* Developed the application architecture and customized framework using STRUTS, JSF and Hibernate.
* Developed, deployed, and tested Stateful Session Beans and exposed them as web services.
* Developed Action classes, Enterprise JavaBeans (EJB) Session Beans using DAO design pattern.
* Used Hibernate to develop an application to manage the reference data to store/retrieve data out of the database tables.
* Architected, designed and developed a rich internet application using AJAX, DHTML and Java which allows users to visually allocate, plan and place products into a 2 dimensional shelf space.
* Used JSF as the web framework.
* Used Weblogic Server as the application server.

***Environment:* Java, JSP, Web Services, XML, ANT, Hibernate, Oracle 10g, HTML, JavaScript, Shell Script, Sun Solaris10, Rational Rose, Rational Clear Case, and Sun One web server.**

Bank of America, Dallas, Texas Oct 2008 – May 2009

*Position:* **Java Developer**

***Project Description:***The Bank of America is uniquely focused to help clients manage and move their financial assets and succeed in the rapidly changing global marketplace. The Information Management System enables users to identify top customers, determine product profitability, observe demographic trends, anticipate market changes, and increase customer retention. It allows data to be viewed at many levels and combinations and has the ability to evaluate multiple scenarios and view data graphically, as a software developer, mainly involved in account maintenance and book-entry modules of the application. Used MVC framework for the frontend of the application and on the backend used oracle 10g as the databases.

***Responsibilities:***

* Developed the system by following the **agile** methodology.
* Involved in the implementation of design using vital phases of the Software development life cycle (SDLC) that includes **Development, Testing, Implementation and Maintenance Support.**
* Applied **OOAD** principles for the **analysis and design** of the system.
* Used **WebSphere Application Server** to deploy the build.
* Developed **front-end** screens using **JSP, HTML, JQuery, JavaScript and CSS**.
* Used **Spring Framework** for developing business objects.
* Performed **data validation in Struts Form beans and Action Classes**.
* Used **Eclipse** for the Development, Testing and Debugging of the application.
* **Log4j framework** has been used for logging debug, info & error data.
* Used **Oracle 10g Database** for data persistence.
* **SQL Developer** was used as a database client.
* Used **WinSCP** to **transfer file from local system to other system.**
* Performed **Test Driven Development** (TDD) using **JUnit**.
* Used **Ant script** for build automation.
* Used Rational **ClearQuest** for defect logging and issue tracking.

***Environment:*** Windows XP, Unix, Java5.0, Design Patterns, Web sphere, Apache Ant, J2EE (Servlets, JSP), HTML, JSON, JavaScript, CSS, Eclipse, SQL Developer, JUnit.

Medha Servo Drives Pvt Ltd., Hyderabad, India May 2007 - Sep 2008

*Position:***Jr. Java Developer**

Medha is an embedded systems based research and development organization located in Hyderabad, India. Medha does design, development and manufacturing of various high quality electronic products. The products need user interface applications to interact with the user. The work profile included developing entity relationship diagrams, design of specifications, design of the table spaces and tables. Also involved in development of purchase order and purchase information systems.

**Details:**

1. **Inventory & Purchase order Application:**

* Maintaing the information about the materials used by the production department.
* Issuing of materials from inventory, checking stock and raising of quotations.
* Raising purchase order after doing comparative study of quotations received from different quotations.

1. **Sales & Purchase Information system:**

* Automation of sales & purchase system with their customers and vendors.
* Maintaining products related details and recording the transactions for invoices, customer payments and updating stock.

1. **User Interface application for loco remote monitoring system:**

* Show the present and past information about any locomotives supplied by Medha.
* Display all the important characteristics and live status of trains running.
* Show the faults lists of any locomotive in a specific order selected by user.

***Responsibilities:***

* Requirements Study, Software Development Specification, Software Development and Unit Testing and finally integration testing.
* Responsible for coding Java, J2EE and Oracle Packages

***Environment:*** Java, JDBC, JSP, Servlets, and JavaScript

EDUCATION:

* Bachelor’s in Electronics & Communications Engineering from JNTU, Hyderbad in 2006.