

# SAIKRISHNA T

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## PROFESSIONAL SUMMARY

- 6+ years of experience in **Software Development Life Cycle** process which includes **analysis, design, development** and **maintenance** of **Hadoop** and **Java/ J2EE** based applications.
- 3+ years of experience in **Hadoop development**.
- Proficient in development methodologies such as **Agile, Scrum** and **Waterfall**
- Proven ability to excel in fast paced development environment using latest **frameworks/tools**. (**Struts, Springs, Hibernate, Web services, Jira, Bugzilla, Quality Centre, JUnit, Mockito, SVN, CVS, VSS, IBM Clear case, IBM clear quest, GIT Hub, SOAP GUI, LDAP** )
- Extensive experience of development using Hadoop ecosystem covering **Map Reduce, HDFS, YARN, Hive, Pig, Hbase, Apache Kafka, Spring XD framework, Sqoop, Oozie, Splunk, Perforce, IBM Big insights, Cloudera**.
- Experience in working with various **Cloudera distributions (CDH4/CDH5)** and have knowledge on **Hortonworks**
- Hands on experience in writing **MapReduce jobs** using **Java**.
- Expert level understanding of **Hadoop HDFS** and **Map Reduce internals**.
- Experience in working with **NoSQL** database **HBase**.
- Expertise in working with **RDBMS** databases like **Oracle, MSSQL** and **DB2**.
- Experience in strong and analyzing data using **HiveQL, Pig Latin, HBase** and **custom Map Reduce** programs in **Java**.
- Worked on designing and implementing complete end-to-end Hadoop Infrastructure including **PIG, HIVE, Sqoop, Oozie**.
- Performed Importing and exporting data into **HDFS** and **Hive** using **Sqoop**.
- Experience in writing **shell scripts** to dump the **Shared data** from **MySQL** servers to **HDFS**.
- Experience in developing **PIG queries** and writing **custom UDF's**.
- Experienced in creating **Avro, ORC, RC, Text files**.
- Experienced in creating views on top of **hive ORC tables**.
- Manage and review **Hadoop log file** and Knowledge on **Spark & Storm**
- Extensive Experience in **Design** and **Building Complex Business components**, Developing **Multi-Tier Web Applications** and **Server Side Business Logic** using **J2EE, UML, Java JDK 1.4/1.5/1.6 Servlets, JSP** and **Tag Library, Struts, Spring, Hibernate, Restful Web Services, Ant, Web logic 10** and **Web sphere 6.1, Apache Tomcat 6.0**.
- Experience in developing **Front-End** using **JavaScript, HTML, XML** and **CSS**
- Experience in designing highly **transactional** websites using **J2EE** technologies and **handling design/implementation**-using **RAD/Eclipse/WSAD**
- Experience in designing **Low Level** and **High Level design** documents
- Good exposure to **MVC** and **design patterns**
- Experience in working with multi/ multiple Operating System like **Windows, Linux** and strong knowledge with **troubleshooting, finding** and **fixing critical problems**
- Experience in **Project Coordination** along with **technical development** with strong communication and **interpersonal competencies**

## TECHNICAL EXPERTISE

<b>Operating Systems</b>	: Windows, Linux & Unix
<b>Languages</b>	: Jdk 1.4/1.5/1.6/1.7, JavaScript, Servlet, PL/SQL, Unix Shell
<b>Hadoop Distribution</b>	: Apache, CDH, Pivotal
<b>Big Data Technologies</b>	: Apache Hadoop (MRv1, MRv2), Hive, Pig, Sqoop, HBase, MongoDB, Flume, Zookeeper, Oozie, Cassandra
<b>Web Technologies</b>	: HTML, JSP, JSF, CSS, JavaScript, JSON & AJAX
<b>Server-Side Frameworks</b>	: Struts 2, Spring, Active MQ, Apache Camel, Hadoop
<b>IDEs</b>	: Eclipse, JBOSS, IBM Web Sphere
<b>Build Tools</b>	: Maven, Ant, Hudson
<b>Web Services</b>	: SOAP & RESTful Web Services
<b>Web Servers /App Servers</b>	: Apache Tomcat 6.0/7.0, IBM WebSphere 6.0/7.0, JBoss 4.3
<b>CI Tools</b>	: Hudson/Jenkins
<b>Production Support Tools</b>	: iDesk, TSG Support Central
<b>Static Code Analysis</b>	: Find Bug/CheckStyle/PMD
<b>Configuration Tool</b>	: SVN, GitHub, CVS, VSS, IBM Rational Clear Case 7.0, IBM Rational Clear Quest 7.0, Demandware, SOAPUI
<b>Database</b>	: Oracle 8i/9i/10g/11g, MySQL, HDFS, MongoDB(NoSQL), LDAP
<b>Cloud Solution</b>	: Amazon Web Services (AWS), Qubole
<b>Defects Triage</b>	: Quality Center 9.2 , BugZilla, JIRA

## PROFESSIONAL EXPERIENCE

Ally Financial  
Charlotte, NC  
Hadoop Developer

Nov-2016 to Present

### Description:

Ally Financial Inc. (NYSE: ALLY) is a leading digital financial services company and a top 25 U.S. financial holding company offering financial products for consumers, businesses, automotive dealers and corporate clients.

As a Hadoop Developer, am responsible for building scalable distributed data solutions using Hadoop. Collection and Downloading of data generated from different sources to HDFS. Performed necessary transformations and aggregation to build the common learner data model in NoSQL store (HBase). Used Pig, Hive and MapReduce for analyzing the various kinds of data and information.

### Responsibilities:

- Designed and developed data movement framework for multiple sources like **Sql Server, Oracle**, and **MySQL**.
- Created **Sqoop** import and export jobs for multiple sources.
- Developed scripts to automate the creation **Sqoop** jobs for various workflows.
- Developed **Hive scripts** to alter the tables and perform required transformations.
- Developed a java **MapReduce** and **PIG cleansers** for data cleansing

- Worked on **Hive UDFS** to mask confidential information in the data.
- Designed and developed MapReduce programs for **data lineage**.
- Designed and Developed **HBase Sink Handler** module in the **data ingestion framework**. HBase Sink Handler ingests data from various input sources into target **HBase tables**.
- Writing the **Hadoop Job workflows & scheduling** using **Oozie**
- Contributed to **design** and **performance testing** of various **HBase Schemas** for the **metrics tables**.  
Languages/Tools/Frameworks: Java, Python, Hive, Pig, Oozie, Hbase
- Designed and developed the framework to **log information** for **auditing** and **failure recovery**.
- Closed worked with the web application development team to develop the user interface for **data movement framework**.
- Designed **Oozie workflows** for job automation.
- Experience in troubleshooting in **MapReduce** jobs by reviewing **log files**.
- Optimized our Hadoop infrastructure at both the **Software** and **Hardware** level
- Ensured our **Hadoop clusters** are built and tuned in the most optimal way to support the activities of our Big Data teams.
- Developed MapReduce programs to extract and transform the data sets and results were exported back to **RDBMS using Sqoop**.
- Maintaining the **MySQL server** and **Authentication** to required users for **Databases**. Appropriately documented various **Administrative & technical** issues.
- Running **Cron-tab** to back up Data. Applied Operating System updates, patches and configuration changes.
- Experience in collecting metrics for Hadoop clusters using Ganglia and Ambari

**Environment:** Cloudera Manager, HBase, flume, pig, Linux, Oozie, MapReduce, Sqoop, SQL Server, MySQL

**Advanced Health Media**  
**Chesapeake, VA**  
**Hadoop Developer**

**Nov-2015 to Oct-2016**

### **Description:**

A Medical Education company that addresses the need of management and reporting systems in healthcare. They provide sales force logistics and compliance management tools to improve the interaction between their clients and healthcare professionals. Company provides financial solutions to help clients manage promotional budgets

### **Responsibilities:**

- Developed **Pig Latin scripts** to extract the data from the web server output files to load into HDFS.
- Developed the **Pig UDF'S** to pre-process the data for analysis.
- Develop **Hive queries** for the analysts.
- Developed workflow in **Oozie** to automate the tasks of loading the data into HDFS and pre-processing with Pig.
- Generated reports using **Pentaho report designer**.
- Cluster co-ordination services through **ZooKeeper**.
- Job management using **Fair Scheduler**.
- Managed and reviewed **Hadoop log files**.
- Installed **Oozie workflow** engine to run multiple Hive and Pig jobs.
- Developed Hive queries to process the data and generate the data cubes for visualizing.

- Hands on experience in **installing, configuring** and using ecosystem components like **Hadoop MapReduce, HDFS, HBase, Zoo Keeper, Oozie, Hive, Cassandra, Sqoop, Pig, Flume, Avro** and **Horton Works Talend**.
- Experience in deploying applications in heterogeneous Application Servers **TOMCAT, WebLogic, IBM WebSphere** and **Oracle Application Server**.
- Monitored multiple Hadoop clusters environments using **Ganglia** and **Nagios**. Monitored workload, job performance and capacity planning using **Ambari**

**Environment:** MapReduce, HDFS, Hive, Java (jdk1.6), Pig, Oozie, Pentaho, Tomcat, WebLogic IBM WebSphere, Oracle Application Server, Apache Phoenix

**Han Digital Solution Private Limited**  
**India**  
**Hadoop Developer**

**Sep-2013 to Aug-2015**

**Company Description:** Han Digital is all about Talent. We work with clients to build Talent Strategies with Implementation and ownership. Our insights help leaders make better decisions on finding and hiring talent. Han Digital is India's foremost provider of IT-BPM talent intelligence. We help our clients understand the Information Technologies Talent Landscape. We offer customised solutions in Talent Fulfilment across all levels of maturity. Our clients include the biggest names in the technology space. We foster an environment of continuous knowledge sharing. This enables us to push beyond the latest market trends and practices.

#### **Responsibilities:**

- Worked with application teams to install operating system, Hadoop updates, patches, version upgrades as required.
- Configured **Sqoop Jobs** to import data from **RDBMS** into **HDFS** using **Oozie workflows**.
- Involved in creating **Hive Internal** and **External tables, loading data** and **writing hive queries**, which will run internally in map, reduce way.
- Involved in Migrating the Hive queries to **Impala**.
- Created batch analysis job prototypes using Hadoop, Pig, **Oozie, Hue** and **Hive**.
- Assisted with **data capacity planning** and **node forecasting**.
- Integrated **Oozie** with the rest of the Hadoop stack supporting several types of Hadoop jobs out of the box (such as **Map-Reduce, Pig, Hive, and Sqoop**) as well as system specific jobs (such as Java programs and shell scripts).
- Involved in Analyzing **system failures, identifying root causes**, and recommended course of actions.
- Documented the **systems processes** and procedures for future references.
- Monitored workload, job performance and capacity planning using **Cloudera Manager**.
- Worked with application teams to **install operating system, Hadoop updates, patches, version upgrades** as required.
- **Monitoring, Performance tuning** of **Hadoop clusters, Screening** Hadoop cluster job performances and capacity planning **Monitor** Hadoop cluster **connectivity** and **security** Manage and review Hadoop **log files**.
- Load and transform large sets of **structured, semi structured** and **unstructured data**.

**Environment:** Hadoop, MapReduce, HDFS, Hive, Java, SQL, Cloudera Manager, Pig, Sqoop, Oozie, Hadoop, HDFS, Map Reduce, Hive, HBase, Linux, Cluster Management

**Distributed Object Technologies Ltd,  
India**

**Oct-2012 to Aug-2013**

**Java Developer/ Web Developer**

**Project:** Insurance Calculation System

The project involves Development of Web based Insurance Calculation System. The project involved the development of Web pages in which user can give values in terms of policies to get insurance coverage related information. The existing software was running in **IBM CICS Transaction Server**, written in Legacy language with **Tabex** and **DB2 Universal databases**. It was converted into Java (J2EE) application and deployed in **IBM Web Sphere Application Server**.

**Responsibilities:**

- Coded the business methods according to the IBM Rational Rose UML model.
- Implement the **code** as per **design**. Developed the **front-ends** in **JSP, HTML** and **JavaScript**. Created **Java Beans** to capture **business logic**. Written **SQL scripts**. **Debug** the implemented **code** as per the **code design**.
- Develop the site and integrating the **dynamic pages** with the **static designs**
- Extensively used Core **Java, Servlets, JSP and XML**.
- Used **Struts** 1.2 in presentation tier.
- Generated the **Hibernate XML** and **Java Mappings** for the schemas.
- Used **DB2 Database** to store the system data
- Used **Rational Application Developer (RAD)** as **Integrated Development Environment (IDE)**
- Used unit testing for all the components using **JUnit**
- Used **Apache log 4j Logging framework** for logging of trace and Auditing
- Used **Asynchronous JavaScript and XML (AJAX)** for better and faster interactive Front-End
- Used **IBM Web-Sphere** as the Application Server
- Used **IBM Rational Clearcase** as the version controller
- Used **Git** for controlling the version of the project

**Environment:** Java 1.6, Servlets, JSP, Struts1.2, IBM Rational Application Developer (RAD) 6, WebSphere 6.0, iText, AJAX, Rational Clearcase, Rational Rose, Oracle 9i, log4j, Java Server Pages and XML, Java, J2EE, Java Helper Class, Java Servlets (Controller), JNI, JAXP, SQLJ, JavaScript

**Atrenta India Pvt Ltd  
India**

**Aug-2011 to Sep-2012**

**Junior Java Developer**

**Company Description:** Atrenta promises chip designers "Early Design Closure." The company makes software tools used to increase accuracy and efficiency in the integrated circuit design process. Its Spyglass predictive analysis products help engineers identify design problems in integrated circuits before fabrication, helping reduce the need for expensive respins of a chip design. SpyGlass was originally developed at Interra Systems, which spun off Atrenta. The company also offers the 1Team design capture and exploration product line and its Guide Ware reference methodologies.

**Responsibilities:**

- Involved in **Analysis, Design, Implementation, and Testing** of the project.

- Implemented the presentation layer with **HTML**, **XHTML**, **JavaScript**, and **CSS**.
- Developed web components using **JSP**, **Servlets** and **JDBC**.
- Implemented database using **SQL Server**.
- Designed **Tables** and **Indexes**.
- Wrote complex **T-SQL** and **Stored Procedures**.
- Involved in fixing defects and unit testing with test cases using **JUnit**.
- Developed **user** and **technical** documentation.

**Environment:** Java, JSP, Servlets, JDBC, JavaScript, CSS, MySQL, JUnit, Eclipse, JBoss