

Somanath Nanda

E-mail : somanath_nanda@rediffmail.com

Github : <https://github.com/babasomanath/>

Contact : +353-899768305



• **J A V A / J 2 E E D e v e l o p e r - H a d o o p a n d N O S Q L D e v e l o p e r**

SUMMARY :

- 6 years and 6 months of experience in Software Design & Development, Web Development for number of enterprise projects across various domains such as Manufacturing, HealthCare, Supply-Chain management, Inventory & Logistics Management , Media and Entertainment.
- I have worked on several use cases using Hadoop and Bigdata related technologies. Hands on experience with components of Hadoop ecosystem : **HDFS (Architecture), MapReduce Programming, YARN, HIVE , HBASE, Kinesis, DynamoDB, Apache Spark and Pig.**
- Developed applications for Distributed environment using **Hadoop , JAVA and Bigdata** technology. Expertise in **MapReduce programming** to develop Hadoop applications and jobs.
- Energetic self-starter with excellent analytical and organizational skills. Outstanding team player with an aptitude to learn, achieve goals, objectives in an accurate and consistent manner.

CERTIFICATION :

- Oracle Certified Java Professional – Version 1.6 – December 2012
- Cloudera Certified Developer for Apache Hadoop – CDH4 (CCD-410) – October 2013

COURSES :

- SPARK and Machine Learning (edX) - Certified
- Regression and Analysis (Coursera)

TECHNICAL SKILLS :

Programming languages/Scripting :	C, Java, JavaScript, Unix Shell, Bash and AWK Script
Databases :	Oracle 10 G (SQL , PL/SQL) , HBASE (NOSQL)
Web Development :	HTML , CSS
Big data :	HDFS, MapReduce, Hive, YARN, HBase, Apache Spark, Oozie
Cloud Environments :	Amazon EC2, Dynamo DB, EMR, Kinesis, S3, IAM
Operating Systems :	Windows XP, GNU/Linux- Ubuntu 11.10
IDEs / Applications :	Eclipse (Helios,Indigo & Juno), Netbean 6.x and above
Data Visualization :	Microsoft Excel, R
Queue Implementation :	JBOSS-HORNET-Q

EDUCATION :

B.Tech. in Electronics and Telecommunication from Biju Pattanaik University of Technology in the year 2010

INTERESTS :

Learning new technologies like Bigdata Concepts and Analysis , Design and Analysis of Algorithms, Design Patterns and new technologies evolving in the era of Machine Learning and AI.

PROFESSIONAL EXPERIENCE :

Virtusa Polaris

Location : Dublin

Sep 2017 – Till date

Project # 1 :

Title : Analytics Product

Description : My work area relates to design and development of Scala code to be run on Cloudera clusters. We have three different Cloudera versions used at the moment for Dev, UAT and Prod environment. My daily activities involve the followings:

- To design and architect the different business modules based on the requirement.

- To develop efficient scala codes to be run on Cloudera Clusters.
- Writing oozie workflows using forks and joins to run spark actions concurrently.
- Managing YARN queues using the Fair Scheduler for the best utilization of the resources in different environments such as DEV, UAT and PROD.
- Development of utility modules using scala and register them as hive UDF wherever needed.
- Finding the best possible way to make the spark applications performant.
- Design and Maintenance of data lake which receives data from the upstream such as RDBMS, online streamed data and web-apps data from the servers. I have implemented data profiling and data security using different tools and concepts to provide the transformed useful data for business end users and App consumers.

Role : Senior Bigdata Consultant

Duration : Sep 2017 – Till Date

Technologies used : Cloudera CDH 5.9.1 cluster (UAT and DEV), Spark, Hive, Oozie

Amazon Data Service Ireland Limited	Location : Dublin	May 2015 – Sep 2017
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Project # 1 :

Title : Developing and Troubleshooting issues on EMR (DevOps, SysAdmin, Development)

Description : My work area relates to development of JAVA code for big data users on EMR, using MR and SPARK, writing hive queries, tuning hive queries, troubleshooting performance issues for running jobs, configuration of EMR environments, working on capacity schedulers and fair schedulers for different users for different pools/queues on YARN and Apache Spark. My job role involved consulting, development and troubleshooting (DevOps and SysAdmin) in Linux environment.

Role : Bigdata Cloud Support Engineer II

Duration : 11 May 2015 – 15 Sep 2017

Technologies used : Amazon EC2, S3, EMR, DynamoDB, Kinesis, IAM

Cognizant Technology Solutions	Location : India	January 2014 – February 2015
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Project # 1 :

Title : Product Development for Sales Force Admin and Analytics in Amazon Cloud

Description : This Product is meant for analyzing business based on different geography and customers assigned to a particular geographic location. I was an individual contributor to develop a query processor on various unstructured data .

Role : Programmer Analyst

Technologies used : Spring 3.x, Hibernate 3.x, JPA 2.0, Spring Security, JBOSS AS 7.1, Single Sign On using JASIG-CAS, AMAZON AWS Cloud, JSON, Multi-tenancy on Cloud Server, My SQL

Tech Mahindra	Location : India	August 2011 – December 2013
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Project # 1 : Duration : August 2013 – December 2013)

A.

Title : I had to find out the top 10 mobile phones , on which we are getting more number of tweets.

Role and Description : People are tweeting their experience on different brands of mobile phones. I had written the JAVA code using Twitter4J API to collect the data from twitter. Then the collected data was processed in a MAPREDUCE program to make the data structured and to find out the counts of different tweets and only top ten record counts were saved.

Role : Hadoop Developer

Technologies used : HDFS, MapReduce Programming, WebServices, twitter4j

Responsibilities :

- Wrote Java code to extract data (tweets, status updates) from Twitter.
- Wrote efficient MapReduce programs for filtering out the unstructured data.

B.

Title : There are 30Lakh records given by one of the health care giant. They wanted to know the top 10 medicines which are sold in the year 2012 - 2013.

Role and Description : To solve this objective, I have Written a MapReduce program using JAVA and found out the sum of total amount spent on a particular medicine in the year 2012-2013. Then I sorted out the top 10 amounts to find out the medicine names using TreeMap in JAVA. This took maximum 2 minutes to process all the 30L records on a 3 node cluster environment ; whereas it was taking more than 7 minutes to compute using RDBMS.

Role : Hadoop Developer

Technologies used : HDFS, MapReduce Programming

Project # 2 :

Title : Social network Analytics (**Duration:** June 2013 – August 2013)

Description : This Project is meant to analyze the sentiments of the viewers based on the data available on various social networking sites such as twitter, facebook, youtube etc. The purpose of this project was to load data from the social networking sites using the java program into HDFS file system. The data obtained is in unstructured format, MapReduce Programming is used to filter out the obtained data and the filtered data is stored in HBase. The data stored in HBase is feed to the R-Tool, which is a statistical computing and graphics tool and used to analyze the sentiments of the user. Previously conversion of unstructured data into filtered structured data was done through java program and data is feed to R-tool which makes the operation slower; with the introduction of Hadoop and its components data is stored and formatted (filtered) efficiently and thus makes the operation faster.

Role : Hadoop Developer

Technologies used : HDFS, MapReduce Programming, WebServices, restfb, twitter4j, g-data api, imdb api, R-tool, HBase

Responsibilities :

- Wrote Java code to extract data (movie reviews, tweets, comments, status updates) from various social media websites (Facebook, YouTube & Twitter and IMDB). I had developed efficient MapReduce programs for filtering out the unstructured data.
- Developed program using HBase API to stored data in to HBase.

Project # 3 :

Title : Concern Report and Counter Measure (**Duration:** April 2013 – June 2013)

Description : Nissan is currently operating from Sunderland, U.K . To manage the escalation level for different raised issues the employees go for various level of approvals to solve and manage. Previously they were following the traditional pen-paper methodologies. To make the process automated and reporting easy, this application is developed.

Role : JAVA – J2EE Developer

Technologies used : Spring 3.x , Hibernate 3.x, JSP, Javascript, Oracle 11G

Application Server used : IBM WAS 7.0.0.27

Responsibilities :

- Developing Action Classes using Spring 3.x
- Developing Oracle SQL Queries and PL-SQL Procedures, functions and triggers
- Designing workflows using Spring for Various levels of approvals

Project # 4 :

Title : Russian Plant Project (**Duration:** January 2012 – April 2013)

Description : Nissan is currently operating from St. Petesburg , Russia known as Nissan Motor Manufacturing which is based on Complete Knock Down business rules. Along with that two more plants named as NMGR-Shikyu and NMGR-DKD are also operating to support and enhance the business. Development of applications which automate the complete ordering system. Along with that maintaining the parts in warehouses and in different shops related to car manufacturing industry is a crucial business aspect of the project. This project is completely based on Inventory & Logistic Management and Supply Chain Management.

Role : JAVA – J2EE Developer

Technologies used : Struts 1.3 , iBatis, JSP, Javascript, Oracle 11G

Application Server used : IBM WAS 7.0.0.19

Responsibilities :

- Developing Action Classes
- Developing JSP pages
- Developing Oracle SQL Queries and PL-SQL Procedures, functions and triggers
- Analyzing issues and solving them as per the requirement of the Business
- Analyzing the requirements and delivering the deliverables on time.
- I supported Applications Developed Using JAVA and ORACLE.
- Developed Code for Oracle Stored procedures, triggers and cursors as per the business requirement.
- Accomplishes the relation between the technology and the business requirement as per the feasibility of the system.
- Improves the productivity of my esteemed customer providing new business solutions which can be implemented through technology.

PERSONAL DETAILS :

Present Address	: 7, Loreto Crescent, Rathfarnham, Dublin – 14, Ireland
Nationality	: Indian
Gender	: Male
Passport No.	: J0399214
PPS No.	: 1598973BA
GNIB No.	: 692871
Current Location	: Dublin