

Natesan Dhanasekar

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Professional Profile

- Around 13 years of IT Consulting experience focused on Application Architecture, Design and Development.
- 6 Years of Big Data experience in major Hadoop distributions such as Cloudera, Hortonworks and MAPR in an Agile environment
- Certified with Cloudera, Hortonworks and Microsoft Azure HDInsights
- Experience in Cloud environment such as Microsoft Azure, AWS and Google Cloud
- Focused on handling high volume and velocity of structured and unstructured data using Hadoop eco-system components, including MapReduce (Java/Python), Hive, Pig, Spark/Spark SQL(Scala), Impala, Sqoop, Oozie, Kafka, Flume, Hbase, NIFI, STORM
- Demonstrated analytical and problem solving skills applied to a "Big Data" environment
- Developed Data Ingestion framework and extensively used Pig/UDF and Spark/Spark SQL for ELT
- Experience with analyzing data with Hive, Impala, Pig, Spark, SAS and R
- Experience with developing capacity plans and architecting a solution for new and existing Hadoop systems
- Experience with importing and exporting data from databases into HDFS using Sqoop Framework
- In-depth knowledge and experience with Data Warehousing ETL (Extraction, Transformation, and Loading) using Informatica and Datastage tools
- Extensive experience with gathering requirements and involvement in the Software Development Life Cycle (SDLC) extending from specification, design, coding, testing and implementation to documentation and project management
- Excellent verbal and written communication skills combined with interpersonal and conflict resolution skills
- Ability to quickly master new concepts and technologies and strong analytical skills

Technology Skill Summary

Big Data:	Hadoop, Spark, Hive, Impala, Pig, Sqoop, Oozie, Kafka, NIFI
Hadoop Distributions:	Cloudera, Hortonworks, MAPR
Cloud	AWS, Google Cloud Platform
Languages & Development Tools:	DataStage, Informatica, Python, Perl, Java, .net, Scala, SAS, R, Tableau, Unix shell script
Operating Systems & System Utilities:	Windows, Linux, Unix
Methodologies & Standards:	Agile, Scrum, SDLC
Tools:	Eclipse, Toad, Erwin, SQL Developer, GIT, SVN,

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Work Experience (continued)

Autosys, Tiwoli workload scheduler

Experience

Knowledge (May 2013 – Till Date)

Big Data Architect – Excellus – BCBS (Sep 2017 to Till Date)

- Designed the big data lake solution which involves Ingestion, Refinement and publish zones
- Designed the Data ingestion using Code generator to ingest 150+ tables from Oracle and SQL Server database
- Designed the Change Data Capture for Large dataset in Big data platform
- Designed the Automated testing strategy to perform Metadata and Data comparison between Source and Data lake tables

Big Data Architect – United Health Care (Jul 2017 to Aug 2017)

- Designed and implemented Data flow framework of Claims 837P/I files into Big Data lake platform

Big Data Architect – Quest Diagnostics (Dec 2015 to Jul 2017)

- Designed the big data lake solution which involves Ingestion, Refinement and publish zones
- Designed Sqoop Data ingestion framework in Spark/Scala to migrate History data from Oracle Database(300+ tables) and Cache Database(150+ tables) with minimum effort
- Designed and built Data pipeline framework from Data Ingestion to Refinement using Spark/Scala.

Big Data Architect – Optum (United Health Care) (Aug 2013 to Dec 2015)

- Lead a work stream of a fully operational Data Lake that resulted in providing accurate picture of patient health, identifying gaps in care, improved quality of care by enabling provider outreach and enables recouping millions of dollars from improper billing.
- Implemented at-scale ELT for a variety of datasets, both, structured (delimited files, JSON, XML, 837,270) and unstructured (Word Documents, PDFs, Images, etc.).
- Developed Pig Custom Loader/Storage and advanced UDF to handle semi/unstructured data

Big Data Solution Partner – Hay Group (May 2013 to Aug 2013)

- Analyzed and documented current system processes and functionality.
- Defined Big Data roadmap and strategy.
- Designed and implemented a Hadoop Cluster in the Amazon AWS Cloud using EC2 and Cloudera Manager.

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Work Experience (continued)

TATA Consultancy Services (Oct 2006 – May 2013)

Big Data Architect – Bank of America

- Performed an end to end analysis of the current environment and designed a Big Data Proof of Concept.
- Ingested data into HDFS from different data sources using Sqoop and an in-house utility.
- Retrieved HDFS data using Hive, Pig and MapReduce – Java/Python.
- Developed a comparison study between Hive and DB2 functions and a plan to close the gap using UDFs/UDAFs.
- Developed a Proof of Concept involving a Data Library, DataPump Portal and Project R in a Hadoop environment.

Technical Architect – Bank of America

- Proposed a rewrite of an existing process from Legacy (UNIX & SQL) to a DataStage job, significantly reducing the number of jobs in the Maestro work flow.
- Architected and implemented the design without any post implementation defects.
- Single point of contact for the end-to-end project cycle, managing both development and testing deliverables.

Technical Project Manager – Bank of America

- Managed and led a DataStage and Mainframe implementation through multiple phases with tight deadlines.
- Executed the project with an Agile - Scrum model and factory model approach.
- Conducted weekly meetings with management to report project status.
- Closely tracked the development and testing team deliverables.

Offshore Delivery Manager – Bank of America

- Managed 60+ associates on different offshore projects in multiple locations such as Chennai, Hyderabad and Bangalore.
- Set budgets and negotiated project timelines with clients.
- Held weekly internal and external meetings on progress.

Technical Lead – Bank of America

- Involved in different projects and performed Requirement gathering, analysis, design, development, testing and implementation
- Design and development of SQL to convert the History and Daily data
- Involved in design and development of Rewriting ETL process from SQL with Datastage
- Lead for different size of team from four to ten
- Coordinated with offshore on daily tasks along with onshore team

HCL Technologies (Aug 2004 – Oct 2006)

Developer – AIG AG

- Developed Shell scripts and 4GL programs and performed quality testing

Natesan D.

Work Experience (continued)

Education / Publications

MADURAI KAMARAJ UNIVERSITY, Tamil Nadu, India
MCA – Master of Computer Application
B.Sc., Mathematics

Certifications

MCP – Microsoft Certified Professional in Data engineering in Microsoft Azure HDInsight
CCDH – Cloudera Certified Developer for Apache Hadoop
HDPCD - Hortonwork HDP Certified Developer
IBM Certified Solution Developer - Infosphere DataStage v8.0 Certification
MCAD - Microsoft Certified Application Developer in .net solutions.