

## Personal Details

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## Profile

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9+ years of overall experience with strong emphasis Design, Development, Implementation, Testing and Deployment of product in AWS, Big data, Spark, Hadoop, HDFS, Python, MapReduce, Hadoop Ecosystem and RDMS, extensive development experience using Python and JavaScript.

## Professional Summary

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- Big Data and cloud engineer with 4.6 years of relevant experience on designing and implementing complete end-to-end data pipelines using MapReduce, Hive, Spark, Sqoop, HBase, Kafka, Yarn, Zookeeper.
- Good knowledge of Hadoop Architecture and various components such as HDFS, Job Tracker, Task Tracker, Name Node, Data Node and MapReduce concepts.
- Experience in working with **Amazon Web Services** like **S3, Glue, Lambda, Athena, SQS, SNS, Cloudwatch, etc.**
- Experience in reading stream data from **Kafka Topics**.
- Experience in importing and exporting data using **Sqoop** from Relational Database Systems to HDFS and vice-versa.
- Experience in analysing data using **Hive QL, RDDs, Spark SQL, Spark Dataframes and Spark Streaming**.
- Collecting and aggregating large amount of log data using Kafka and storing it in the HDFS for further analysis.
- Job/Workflow scheduling and monitoring tools like Event Engine (American Express internal tool).
- Experience in performance tuning and optimizing jobs in Hive or Spark using various techniques.
- Experience working with Shell script and Unix.
- Working experience in transferring files through SFTP.
- Worked in complete Software Development Life Cycle (analysis, design, development, testing, implementation and support) using **Agile Methodologies** and tools like **TFS and Rally**.
- Experience on Hadoop Clusters using major Hadoop Distributions – **Hortonworks** (HDP) and **MapR** (M3 v3.0).
- Experienced in using Integrated Development tools like Eclipse, IntelliJ, etc.
- Working experience on interactive shells and notebooks like Putty, Hive Shell, Spark Shell and **Jupyter Notebook**.
- Experience in Continuous Integration and Deployment of the product (CI & CD) using tools like **GIT, Bit Bucket, Jenkins and XL Release**.
- Have knowledge on NoSQL database like **HBase** and **Big Table**.
- Excellent knowledge of SQL in application development.
- Great experience in **Banking and Finance domain** since working with a leading American Bank.
- Excellent technical, communication, analytical and problem solving skills and ability to get on well with people including cross-cultural backgrounds and troubleshooting capabilities.

## Education

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- Post Graduate Diploma (Distance) in 2018 : Amity University ,Noida (8.5 CGPA)
- Bachelor of Technology in 2011 : Uttarakhand Technical University (75.4 with Hons)

## Technical Skills

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**Big Data Ecosystems:** Hadoop, Spark, MapReduce, HDFS, YARN, HBase, Hive, Sqoop, Kafka, Spark Streaming

**Cloud Services:** Amazon S3, Amazon EC2, lambda, cloudwatch, Athena, Glue, Snowflake

**Scripting and Programming languages:** Python, Bash, Shell Script, Unix, HTML, JavaScript

**Operating System:** Windows 95/98/NT/2000/XP, Linux, Mac OS

**Sub versioning Tools:** SVN, Bit Bucket

**CI/CD Tools:** Jenkins, XL Release

## Work History

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### Senior Big Data/Cloud Engineer

**Cognizant Technology Solutions (Jul 2018 - Present)**

**Client: American Express India Pvt Ltd.**

- Worked on data lake formation on Cloud (**AWS** and **Snowflake**).
- Have successfully integrated AWS and Snowflake ecosystem and exposed the presentation layer to the BI team.
- Have used **lambda** and **glue** in AWS data layers.
- Have integrated **Snowpipe** with AWS to load the data in Snowflake.

## Senior Big Data/Cloud Engineer

### Cognizant Technology Solutions (Jul 2018 - Present)

Client: American Express India Pvt Ltd.

- Worked on different applications like ACORN, RMS, CFP, etc in Global Collections for Amex.
- Got the opportunity to understand the Banking and Finance (**BFS**) domain.
- Loading the data from the different data sources like **TeraData**, **SQL Server** and **Data Lake** (Cornerstone).
- Developed various reports on PySpark using Spark **Dataframes**, **Spark SQL**, **Spark Streaming** for faster processing.
- Exporting the Data to various RDMS through **SFTP** or **Sqoop**.
- Experienced in handling large datasets using Partitions, Spark in Memory capabilities, Broadcasts in Spark, Effective & efficient Joins, Transformations and other during the ingestion process itself.
- Performance tuning applications and systems for high volume throughput.
- Ensures solutions developed adhere to security and data privacy policies.
- Lead investigations and proof of concepts as Big Data technology evolves.
- Lead troubleshooting on Hadoop technologies including HDFS, MapReduce, YARN, Hive, HBase, Tez, Sqoop, Spark, Big Query, Kafka, and SFTP, Unix.

## Senior Big Data Developer

### HCL Technologies (Feb 2014 – Jun 2018)

Client: Telstra

- This project deals with ingesting data from multiple sources using Hadoop commands.
- Audit Balancing & Control mechanism is performed on ingested data using **Spark** and **Python**. Processed data is finally pushed into persistent layer for Business Units to generate reports over it.
- Developed and executed **hive Queries** for denormalizing the data.
- Very good understanding of Partitioning and Bucketing concepts in Hive and designed both Managed and External Tables in Hive to optimize the performance.
- Work closely with the business and analytics team in gathering the system requirements.
- Load and transform large sets of structured and semi structured data.
- Supported code/design analysis, strategy development and project planning.

## Software Engineer

Client: Appcelerator

- Worked on different applications like Travel Authorization System (TAS) , Qualcomm, Moasis, etc
- Worked as a JavaScript developer . Experienced on Mobile Frameworks like Appcelerator, iOS and Android .
- Implemented the **digital signature procedure** needed to raise the international requests in TAS.
- Redesigned and developed Messaging on iOS achieving reliability and scalability.
- Refined and developed features resulting in decrease of crashes by 50%, increase in user retention by 200%.
- Repaired existing iOS and Android applications using **Xcode** and **Titanium**.
- Experienced on the unit testing and resolved all the issues raised by testing team.
- Common application of Moasis for iOS and android covering all the methods (common as well as individual).

## Achievements

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- Experienced on the unit testing and resolved all the issues raised by testing team.
- Got the Quarterly All-rounder award in Cognizant Centre Awards.
- Got Shining Star Applause in Cognizant.
- Recognized as “Employee of the Month” in Globallogic.
- Got Spot award in HCL Technologies.
- Got Merit Certificate from CBSE in All India Secondary School Examination-2005.
- Secured 1<sup>st</sup> position in Collage making competition held at college spectrum-10.
- Got certificate of talent from ALL INDIA TALENT SEARCH EXAMINATION organized by Children’s Education Trust of India.