

# Nuthan Reddy

Technical Lead | Architect

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## SUMMARY

Technical Lead and Architect with 10+ years of experience architecting scalable data systems and leading high-performing engineering teams. Expert in distributed systems, cloud platforms, and big data technologies.

## WORK EXPERIENCE

### Microsoft

*Senior Software Engineer*

Mar 2022 – Present

Hyderabad

- Led a big data technical team of 5 engineers and contributed to their success and success of the project by defining a clear phase wise plan to sovereign cloud efforts.
- Collaborated across Microsoft to identify and source new datasets to identify asset ownerships. This helped in reducing dark data from ~4% to <0.1% of total data thereby improving accuracy in GDPR compliance KPIs and reducing the risk of fines from data protection authorities.
- Established Data Contracts between DataMap, DataGrid and Trust360 teams and enforced quality rules based on the contracts and gracefully handle them. This halved the Live Site instances and preventing corruption and back-filling scenarios thereby reducing the TTR by ~80%.
- Eliminated non-deterministic code paths in data processing jobs, enhancing testability, reliability and consistency.
- Facilitated technical design sessions and translated complex business requirements into scalable architectures.
- Redesigned and delivered 2-20x performance improvements in Data Scanning by parallelizing bottlenecks. This reduced overall data freshness to 24 hrs from previous ~8 days.
- Architected and developed Privacy Signals Program managing data deletion, export delivery, processing and compliance reporting across Microsoft services.

### Walmart

*Software Engineer III*

Oct 2020 – Mar 2022

Bangalore

- Mentored multiple junior engineers and made everyone successful in terms of their technical goals in Distributed Systems Learning.
- Contributed to the modularized rule based and config-driven design and development of Central Item Ledger for EBS Teams.
- Optimized data processing jobs leading to 30% reduction in execution time and improved resource utilization.
- Developed Code Freeze App using Go to automate GitHub repo freezing via Slack, streamlining deployment processes.

### Sigmoid

*Software Development Engineer I*

Jan 2019 – Oct 2020

Bangalore

- Sole developer of OpenX Prebid streaming pipeline supporting 100k req/sec, 1GB/sec throughput which is presented at Apache Con NA 2020.
- Improved reliability and reduced costs in OpenX Prebid streaming pipeline by using circuit breaker pattern and optimizing resource usage.
- Spearheaded implementation of BigQuery-based NitroDB achieving 30% cost reduction while maintaining performance.
- Developed multi-tenant search feature with Elasticsearch integration, delivering responsive experience for multiple organizations.
- Contributed critical bug fixes to official spark-snowflake connector, ensuring data correctness.
- Contributed sieve feature to pick right grains on user query to NitroDB making it multi fold efficient.

### Capgemini

*Consultant P2*

Jun 2015 – Jan 2019

Bangalore

- Migrated business logic from Teradata to HIVE for a leading energy client. Optimized scripts using various strategies (partitioning, data format and cbo options etc).
- Developed a data pipeline to monitor sensor data and predict oil well failures using Spark Streaming, NiFi and HBase to process real-time data for a leading energy client.
- Developed custom UDFs in Java to optimize complex transformations and missing functions.

## EDUCATION

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<b>Indian Institute of Technology (IIT) Kharagpur</b>	2011 – 2015
<i>Bachelor of Technology, Industrial &amp; Systems Engineering</i>	
<b>Sri Chaitanya Jr College, Gudavalli</b>	2009 – 2011
<i>XII, Board of Intermediate Education</i>	
<b>Gowtham Concept School, Gudivada</b>	2008 – 2009
<i>X, Board of Secondary Education</i>	

## SKILLS

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**Core Technologies :** Apache Spark, Kafka, Flink, Apache Beam  
**Additional Technologies :** Airflow, Kubernetes, Docker, Hadoop, HDFS, Elasticsearch, Snowflake, BigQuery  
**Languages :** Python, Scala, Java, SQL, Shell Scripting, Go, JavaScript  
**Cloud & Data Platforms :** AWS, Databricks, Azure, GCP, Snowflake  
**Key Competencies :** Data Engineering, Distributed Systems, System Design & Architecture, Data Privacy & Compliance, Leadership & Mentoring, Cross-Functional Collaboration, Problem Solving

## CONFERENCES / TECH BLOGS

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- Apache Con NA 2020 - Google Pubsub vs Apache Kafka
- Microservices — Is it worth the hype? And How can we benefit from it?

## CERTIFICATIONS

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<b>Databricks Fundamentals</b>	2026
<b>Cloud Computing and Distributed Systems</b>	2023
<b>AWS Certified Solutions Architect – Associate</b>	2022

## COURSES

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<b>Data Structures and Algorithms</b> - <i>IIT Kharagpur</i>	2015
<b>Soft Computing and Heuristic Search</b> - <i>IIT Kharagpur</i>	2015
<b>Functional Programming Principles in Scala</b> - <i>Coursera</i>	
<b>Java Memory Management</b> - <i>LinkedIn Learning</i>	
<b>Google Cloud Platform Big Data and Machine Learning Fundamentals</b> - <i>Coursera</i>	
<b>Google Cloud Platform Fundamentals: Core Infrastructure</b> - <i>Coursera</i>	
<b>Apache Kafka Series - Kafka Cluster Setup &amp; Administration</b> - <i>Udemy Academy</i>	
<b>Feature Selection for Machine Learning</b> - <i>Udemy Academy</i>	
<b>AWS Certified Developer - Associate</b> - <i>Udemy</i>	2018
<b>AWS Certified Solutions Architect - Associate</b> - <i>Udemy</i>	2018
<b>Python for Data Science and Machine Learning Bootcamp</b> - <i>Udemy Academy</i>	
<b>Cloud Computing and Distributed Systems</b> - <i>IIT Patna</i>	