Nuthan Reddy

Technical Lead | Architect

9474985552 | nuthan.reddy999@gmail.com | linkedin.com/in/nuthanreddy/ | github.com/NuthanReddy

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   Mar 2022 – Present
Senior Software Engineer   *Hyderabad*

- Lead 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 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 backfilling 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 Team managing data deletion, export delivery, processing and compliance reporting across Microsoft services.

Walmart   Oct 2020 – Mar 2022
Software Engineer III   *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   Jan 2019 – Oct 2020
Software Development Engineer I   *Bangalore*

- Sole contributor of planet-scale streaming pipeline supporting 100k req/sec, 1GB/sec throughput which is presented at Apache Con NA 2020.
- 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 spark-snowflake connector, ensuring data correctness at scale.

Capgemini   Jun 2015 – Jan 2019
Consultant P2   *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

Indian Institute of Technology (IIT) Kharagpur   2011 – 2015
Bachelor of Technology, Industrial & Systems Engineering

Sri Chaitanya Jr College, Gudavalli   2009 – 2011
XII, Board of Intermediate Education

Gowtham Concept School, Gudivada   2008 – 2009
X, Board of Secondary Education

Skills

Core Technologies : Python, Scala, Java, SQL, Apache Spark, Kafka, Kubernetes, Docker
Cloud & Data Platforms : AWS, Azure, GCP, Snowflake
Key Competencies : Data Engineering, Distributed Systems, System Design & Architecture, Data Privacy & Compliance, Leadership & Mentoring, Cross-Functional Collaboration, Problem Solving