Marmik Patel

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SUMMARY

- Senior Data Engineer & Solution Architect with **8+ years** building petabyte-scale data platforms on Hadoop, Spark, and Snowflake
- Built migration factories moving **600+ databases / 3500+ tables** and orchestrating **700+ ETL jobs per hour** with sub-5-minute SLAs
- Expert in performance tuning and cost governance—achieved **1.8 B rows/hr** ingests and cut query latency by up to **80 %**
- Hands-on coder (Python, Scala, SQL) who pairs deep technical skills with client-facing leadership for Fortune-500 transformations

WORK EXPERIENCE

Squadron Data Inc., Overland Park, KS

Senior Solution Architect   *Jan 2024 – Present*

- Architected Snowpark migration factory (1 TB/hr, 700 ETL jobs/hr), slashing query latency from minutes to seconds.
- Built an automated "Data Engineering Toolkit" that reduces platform-migration effort by 30 %
- Mentor and code-review lead for a five-engineer team; introduced CI/CD pipelines that trim release cycles by 40 %

Squadron Data Inc., Overland Park, KS

Big Data Hadoop Developer   *Jan 2018 – Dec 2023*

- Designed the Hive Query Stats Spark application (Scala) to surface YARN metrics, informing capacity planning and saving clients >$200 K/yr
- Created the Squadron Platform Migration Tool, automating Teradata/Netezza-to-Hadoop/Snowflake moves and handling schema and data conversion
- Led HDP → CDP in-place upgrades for seven enterprise clusters (150 K tables), implementing Kerberos, Ranger, TLS/SSL, and ACID adoption playbooks

Selected Client Projects:

Service Management Group   *Sep 2024 – Present*

- Migrated 600+ databases & 3,500+ tables from Hive to Snowflake via Snowpark.
- Achieved 5-minute SLA with Snowflake Tasks & Snowpipe; enabled real-time CX analytics for 40+ teams.

IQVIA – Life Sciences   *Sep 2023 – Aug 2024*

- Re-engineered Spark 2 codebase to Spark 3; improved job runtime 1.5–2× and lowered cloud spend 20 %.

Multi-Industry Portfolio (Verizon, Apple, Wells Fargo, etc.)   *Jan 2020 – Apr 2023*

- Orchestrated HDP → CDP migrations; authored runbooks and ETL refactors preventing production outages.

Sprint Inc. – Telecom   *Oct 2018 – Jul 2019*

- Tuned Spark/Hive ETL to ingest 1.8 B rows/hr and cut query time from 6 min to <1 min by eliminating small-file bottlenecks.

Service Management Group   *May 2017 – Sep 2018*

- Built Teradata-log parser and Sqoop pipeline migrating 600+ databases & 3,500+ tables to Hadoop; automated partition management sustaining 700 jobs/hr.

EDUCATION

M.S. Computer Science, University of Missouri – Kansas City, GPA 3.95   *Dec 2017*
B.E. Computer Engineering, Gujarat Technological University – India, GPA 3.95   *Jun 2015*

SKILLS

Data Engineering & Big Data: Hadoop (HDFS, YARN), Spark 2/3, PySpark, Hive, Snowpark, Snowflake, Databricks, Kafka, Livy, Sqoop
Cloud & DevOps: AWS (S3, EMR), Azure, Docker, CI/CD, Git, Ranger, Knox, Kerberos, TLS/SSL
Programming & Scripting: Python, Scala, Java, SQL, Bash
Orchestration & ETL: Apache Airflow, Snowflake Tasks/Snowpipe, Apache Oozie, IBM DataStage
Databases & Warehouses: Snowflake, PostgreSQL, MySQL, Teradata
Analytics & BI: Power BI, Tableau
Tools & IDEs: Maven, SBT, IntelliJ IDEA, PyCharm, Eclipse; Unix/Linux, JIRA

CERTIFICATIONS

SnowPro Core Certified(Snowflake)