Harmanjeet Singh

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About - Engineer (prev, Engineering Manager) with a knack for building and scaling robust systems and data products. I'm passionate about open source software, developer experience and systems engineering. Consistently promoted and selected among top 1% performers across roles.

Experience

Department of Health   Abu Dhabi, UAE
Senior Staff Data Engineer   Aug 2025 - Present

- Focusing on modernizing and simplifying the data stack with focus on performance and quality
- Leading data engineering practice for critical initiatives owned by Digital Health for DOH-AD
- **Tech Stack**: Spark, DQX, Databricks, Delta Lake, ADLS, MSSQL, Oracle, FHIR, Kubernetes, Azure

Majid Al Futtaim   Dubai, UAE
Senior Engineering Manager   Sep 2023 - Aug 2025

- Rebuilt identity graph for MAFs diverse 75M customer record collected across 14 varied businesses combined with a feature store to serve martech, fintech and customer obsessed products
- Lead core data engineering practice with goal of perfecting quality, reliability and observability across data, data products and data infrastructure

Engineering Manager   Sep 2021 - Sep 2023

- Led a team of 10 to build for central business intelligence platform (internal name: Connect) for MAF focusing on internal tooling, market trends, competitive benchmarking and business performance
- Led build and integration for internal MarTech and AdTech automation product aiming to improve, consolidate and standardize marketing and advertising workflow across MAF's retail ad network

Lead Data Engineer   Jun 2019 - Sep 2021

- Started as an lead engineer to handle central data infrastructure for MAF i.e. integration with 30+ source/sink, data observability and managing databases, data-lake, reporting and event-bus infrastructure
- Led and scaled a team from 5 to 11 engineers over 2 years to create Data Engineering and Operations team backing up the data management and operations required for flagship programs for loyalty, marketing and operations
- Led build for an internal marketing platform crunching 35M customer base with 1200+ attributes to craft a campaign specific audience with sub-second latency

Tech Stack: Spark, Splink, Cube.dev, S3, Vertica, DuckDB, Postgres, HDFS, Airflow, Kafka, Datahub, Jenkins, NodeJS, React, Docker Swarm, Argo Workflows, ArgoCD, Kubernetes, AWS

Mu Sigma Inc.   Bangalore, India
Decision Scientist, Apprentice Leader   Jun 2015 - Apr 2019

- (United Airlines) optimized recommender system (by reverse engineering Oracle RTD) to create a 30% significant lift in yearly revenue
- (Tesco) Built data and platform infrastucuture for retail pricing and inventory management
- (MAF) Built backend and data infra for internal employee application serving 46K employees with 150+ MAUs
- (MAF) Built a configuration based ETL framework on on-prem Hadoop infra (140 pipelines, 10TB volume, 15 data sources)

Education

PES Institute of Technology   Bangalore, India
Bachelor of Engineering - Electrical and Electronics   Jun 2011 - Jun 2015