

# 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

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### Department of Health

#### *Senior Staff Data Engineer*

Abu Dhabi, UAE

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

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### 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 a 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

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### Mu Sigma Inc.

Bangalore, India

#### *Decision Scientist, Apprentice Leader*

May 2015 - Jun 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 infrastructure 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

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### PES Institute of Technology

Bangalore, India

#### *Bachelor of Engineering - Electrical and Electronics*

Jun 2011 - Jun 2015