

Harmanjeet Singh Nagi

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EXPERIENCE

• Majid Al Futtaim

Senior Data Engineer

Dubai, UAE

Jun 2019 - Present

- **Batch Data Pipelines:** Inhouse data framework based on open source projects (Airflow and Argo) to orchestrate and run batch data pipelines for ingestion, warehousing and analytics
- **Data Modelling and Warehousing:** Setup, schema design and scheduling of Vertica (analytics database). Wrote data pipelines for crucial business operations - loyalty program, retail and fashion analytics, and movie recommendations
- **ACLs for Postgres and Vertica:** Conceptualized and built internal access control application for data governance adherence on Vertica and Postgres DB. Added AD authentication and roles were defined as business glossary
- **Schedule Monitoring and Data Observability:** Setup and maintained Grafana based monitoring dashboards for data, infrastructure and schedule monitoring. Also, enabled alerts and messaging for failures and deployments
- **Golden Customer Record:** Create unique customer records from 9 data sources for 35 customer attributes using Informatica MDM. Project enabled cross business marketing and was upstream source for group-wide loyalty program
- **Infrastructure migration and optimization:** Migrated data lake from Hadoop to S3. Improved performance for Vertica by migrating and fine-tuning cluster. Migrated legacy ETL tasks to Data Pipelines for improved stability. Resulted in overall reduction 40% yearly operational budget
- **Data Operations:** Responsible to translate business data requirements into technical stories. Enable BI, reporting and analytics use cases based purpose based data-marts

• Mu Sigma Inc

Decision Scientist, Apprentince Leader

Bangalore, India

May 2015 - Jun 2019

- **Stabilizing Legacy ETL Framework:** Built configuration based framework for Informatica BDM to run legacy ETL tasks. Enabled 140+ data operations from 15 varied data sources to enable BI and analytics use cases
- **Infrastructure and backend for Employee Application:** Designed and build REST API backend (and AWS infrastructure) with sub-second response time for employee application powering 45K users
- **Infrastructure for Retail Pricing and Inventory Application:** Infrastructure setup and On-premise continuous integration and deployment approach for an application involving pricing and range simulations
- **Optimize Recommender for Airline Upselling:** 30% lift in yearly revenue by reverse engineering performance of real-time recommendations (based on Oracle RTD) used for airlines check-in process

• Autoninja

TechOps Engineer (Intern)

Bangalore, India

Jan 2015 - Jun 2015

- **TechOps Intern:** Early stage startup. Bridge between technical and operational team to prioritize requirements. Involved in Pre-sales and technical product grooming

EDUCATION

• PES Institute of Technology

Bachelor of Engineering Electrical and Electronics; GPA: 8.56 (of 10)

Bangalore, India

Jul 2011 - June 2015

SKILLS

- **Domains:** Data Engineering, Big Data Analytics, Agile Project Management, Master Data Management, Data Governance, Machine Learning, Software Development Lifecycle, DevOps
- **Languages:** Shell (bash), Python, SQL, Golang (learning), Scala, LaTeX
- **Data:** Postgres, SQLite, Vertica, Athena, MS SQL, Informatica Big Data Management, Hadoop HDFS, Redis, ElasticSearch
- **Infrastructure:** Linux - Ubuntu, Centos, RHEL, Cloud - AWS, GCP
- **Tools and Framework:** Git, Airflow, Spark, Docker, Nginx, Jenkins, Terraform