Harmanjeet Singh Nagi

https://www.hrmnjt.dev/

Email : hrmnjt@hrmn.in
Mobile : +971-50-373-7005
Github : hrmnjt
LinkedIn : hrmnjt

EXPERIENCE

- **Majid Al Futtaim**   Dubai, UAE
  Lead Data Engineer   *Jun 2019 - Present*
    - **Data Pipelines**: Inhouse data framework based on open source projects (Airflow and Argo) to orchestrate and run batch and realtime data pipelines for ingestion, warehousing and analytics using Apache Spark and Confluent Platform
    - **Data Modelling and Warehousing**: Setup, schema design and scheduling of Vertica (analytics database). Wrote data pipelines and integrations data warehouses and marts - loyalty program, retail and fashion analytics, and movie recommendations
    - **ACLs for Postgres and Vertica**: Conceptualized and built internal access control application for data goverance adherence on Vertica and Postgres DB. Added AD authentication and roles were defined as business glossary
    - **Schedule Monitoring and Data Observability**: Led the team to setup Prometheus and 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 EE cluster. Migrated legacy ETL tasks to Data Pipelines for improved stability. Resulted in overall reduction 40% yearly operational budget

- **Mu Sigma Inc**   Bangalore, India
  Decision Scientist, Apprentince Leader   *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**   Bangalore, India
  TechOps Engineer (Intern)   *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**   Bangalore, India
  Bachelor of Engineering Electrical and Electronics; GPA: 8.56 (of 10)   *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, Kafka, Presto, Athena, MS SQL, Informatica Big Data Management, Informatica Master Data Management, Hadoop HDFS, Redis, ElasticSearch
- **Infrastructure**: Linux - Ubuntu, Centos, RHEL, Cloud - AWS, GCP, Confluent Platform
- **Tools and Framework**: Git, Airflow, Spark, Docker, Nginx, Jenkins, Terraform, Jira, Confluence