ARUN DEEPAK RAMALINGOM PILLAI

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Professional Summary

As a Data Leader with experience working in culturally diverse organizations, I love bringing People, Business and Technology together by enabling data driven decision making with the help of AI.

Work History

Lead Data Engineer
Just Eat Takeaway

August 2022 – Current
ON, Canada

- Managed enterprise level data products for partner and sales pillar by delivering incremental value in an agile environment. This consisted of collaborating with stakeholders to manage backlogs, facilitating standup's, managing work in progress, resolving conflicts, promoting collective code ownership and providing servant leadership to deliver solutions.

- Developed multi-agent work flows using OpenAI SDK and LangGraph to serve as first line of contact for inhouse self-serving, especially FAQ's.

- Established and mentored a team of engineers and analysts on best practices for developing pipelines, data modelling/warehousing, data quality/governance, data analytics/visualization while maintaining SLA's to deliver on data-driven initiatives.

- Analyzed source systems and developed 100+ data pipelines to transfer data from Salesforce Marketing Cloud, Braze, AppAnnie, PostgreSQL, MySQL, DynamoDB, etc to Google Cloud Storage/Google BigQuery by orchestrating via Airflow with 99.99% reliability and an average downtime of 10 minutes per month. In addition to batch ingestion, also worked on real time data ingestion from kafka topics.

- Partnered with global data teams to define and adopt medallion architecture (bronze, silver and gold layer) that establishes a single source of truth per domain using dbt. This provided optimized data workflows, automatic SQL documentation, data quality checks (Great Expectations along with dbt) and code reusability (using macros/functions).

- Supported development of semantic modelling layer using LookML by defining dimensions, aggregates and data relationships to enable self-serve reporting and data exploration for the business in Looker, thereby freeing up analysts to focus on the most important business initiatives.

- Worked on establishing data discovery, governance and end-to-end observability by leveraging metadata in datahub.

- Provisioned GCP infrastructure (BigQuery tables, Storage buckets, Datastream, Cloud Functions, IAM, etc) using Terraform (Infrastructure as Code).

- Utilized version control system such as GitHub to track changes, support collaboration, and ensure code integrity throughout every development process. GitHub Actions was used for automated deployment following CI/CD principles.
- Explored BigQueryML, CrewAI and Gemini to support basic ML/AI capabilities in conjunction with Streamlit/Gradio for POCs.

Senior Data Modeler
Innovation Credit Union

May 2021 – August 2022
ON, Canada

- Lead the development and implementation of self-serve reporting in Power BI to support business decisions.
- Collaborated with stakeholders to define the scope of projects, identify source systems and understand business rules to establish centralized data models for reporting thereby increasing reporting efficiency by 50%.
- Identified gaps between current state and desired future state architectures through gap analysis.
- Built dimensional models such as star schemas, snowflake schemas and fact and dimension tables for data warehouses.
- Established a data governance framework consisting of 5+ data producers and consumers and provided data lineage information for critical business data elements using Purview.
- Serve as a reference and authority on the process of data modeling and ensure consistency with existing standards for data models.
- Collaborated with external consultants to manage project deliverables, oversaw the recruiting, onboarding process and mentored junior BI team members.
- Researched emerging technologies related to Data Modeling, Database Design and Development, ETL processes to create POCs.

Data Engineer
Ferguson Enterprises Inc.

Oct 2014 - May 2021
VA, USA

- Built and led the Marketing Technology team responsible for architecting data used by Oracle cloud marketing technology stack tools (Eloqua, Responsys and Bluekai) resulting in 35% reduction in customer acquisition costs.
- Facilitated batch and real time data load/processing using Azure tools such as Data Factory, Azure Functions, Data Lake, Synapse Analytics, SQL database, Stream Analytics, Event Hubs, etc to enable data scientists/data analysts to perform their analyses, resulting in a 30% reduction in time-to-solve.
- Implemented Logic Apps and Azure monitor for error logging and monitoring of data factory pipelines.

- Built the required data models by assimilating data from various sources using SQL queries, stored procedures, etc.
- Enabled data exchange between in-house CRM system and Eloqua, using API's, to support the build out of prospecting campaigns in Eloqua, resulting in an increase of qualified leads by 25%.
- Collaborated with architects, developers, business users and external consultants to develop solutions following agile methodologies such as Scrum and Xtreme Programming to provide impactful outcomes.
- Developed database architectural strategies at modeling, design, and implementation stages to address business and industry requirements.
- Identified and evaluated industry trends to serve as source of information and advice for upper management.
- Championed implementation of CI/CD practices to ensure iterative/incremental delivery.
- Maintained operational documentation in partnership with technical authors using SharePoint.

Education

Master of Science: **Electrical and Computer Engineering**   May 2014
Old Dominion University   VA, USA

Bachelor of Science: **Electrical and Electronics Engineering**   May 2011
Anna University   Chennai, India

Certifications

- Project Management Professional (PMP)
- Astronomer Certified: DAG Authoring for Apache Airflow
- Microsoft Certified: Azure Data Engineer Associate (DP-203)
- Microsoft Certified: Azure AI Fundamentals (AI-900)
- dbt Fundamentals
- Google: Generative AI