Rama Krishna Poluru

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WORK EXPERIENCE

Data Engineer Intern, ECC, Burlingame, California

May 2023 - Present

- Implemented a BI solution with Azure, utilizing data lakes, Azure Active Directory, ADB, and ADF, achieving 99% uptime and ensuring 96% of data integrity for reports and dashboards.
- Engineered a data warehousing solution with **star** and **snowflake** schemas, reducing data retrieval times by **30%** and providing actionable insights, substantially aiding services and marketing departments.
- Drove the strategic data architecture evaluation for the development of a NLQ chatbot across Azure Synapse,
 Microsoft Fabric, and other services, guiding cost-effective and compatible solutions.

Data Engineer II, Microsoft, Hyderabad, India.

Jul 2021 - Jul 2022

- Migrated on-premises data warehouse to azure cloud-based solution, developing 40+ notebooks (PySpark, Spark SQL) with zero pipeline failures and data discrepancies on the production environment on pilot deployment.
- Optimized execution time of **3** big data **batch pipelines** by **60%** by employing Spark techniques, efficient coding standards, and refining data transformation logic to meet business needs and minimizing data **redundancy**.
- Maintained data platform integrity and performance through daily and weekly testing, peer code reviews, and
 continuous optimization of notebook execution times, significantly reducing Azure costs by nearly \$0.2M annually.
- Coordinated a team of 6 and addressed cross functional teams in an Agile environment owning product backlogs
 including requirements gathering from DataOps and demoing incremental builds (CI/CD) on Azure DevOps.

Data Engineer I, Microsoft, Hyderabad, India.

Jun 2020 - Jun 202

- Streamlined ELT pipelines using Azure Data Factory and 150+ Azure Databricks notebooks for 5 dependent systems to process upward 20M + transactional records every 6 hours to enhance business intelligence processes.
- Initiated a **Python** and **Scala** based validation framework to automate data validation across the data engineering lifecycle, reducing error rates by **15%** and saving **9 hours** of daily manual effort for **6** teams.
- Independently enhanced **data pipelines** through efficient **ETL** process design, actively optimizing and maintaining production environments for uninterrupted data flow to downstream users and systems.

Associate Data Engineer, MAQ Software, Hyderabad, India.

Dec 2019 - May 2020

- Elevated user experience by reducing report load time to **9 seconds**, streamlined analytics by architecting **Power BI** reports with **DAX** measures for 5 KPI **dashboards** with RLS, and enhanced data accessibility and security.
- Designed and executed SSIS ETL packages, cutting data processing time by 11% over multiple terabytes, and utilized SSAS for advanced data analytics through multidimensional cubes, bolstering data-driven decision-making.
- Optimized data analysis time by developing advanced SQL queries and stored procedures, enhancing Power BI
 report efficiency with a 45% reduction in processing and refresh times.

Junior Data Engineer, Fratello Innotech, Hyderabad, India.

May 2019 - Nov 2019

- Enhanced billing automation for major retailers (Amazon, Flipkart, Snapdeal) using APIs, Selenium, and **Airflow**, boosting efficiency by **40**% and cutting labor by **60**%.
- Streamlined custom ETL process for a finance client using AWS Glue and ingested in AWS RedShift.
- Performed auditing, inspecting and visualizing S3 server access logs using AWS Lambda, and AWS Athena.

PROJECTS

- United States H-1B Visa Data System for Operational Usage and Analytics (AWS Lambda, AWS Glue, Snowflake, MySQL, Tableau, Python, Pandas, OLAP, Kimball dimensional modeling, ERD, Star Schema) (Medium) (Git)
- Uncovering Coordinated Campaigns: Artificial Inflation of Trend Popularity on Twitter. (AWS EMR, PySpark, Python, AWS Redshift, QuickSight) (<u>Medium</u>) (<u>Git</u>)
- Real-Time Stock Market examination with Kafka (EC2, Athena, Apache Kafka) (Git)

SKILLS

- **Big Data Technologies:** Hive, Spark, HDFS.
- Cloud: AWS Glue, AWS EMR, AWS Lamda, Azure Data Bricks (ADB), Azure Synapse, Microsoft fabric.
- Databases and Data warehouses: Snowflake, Google Big Query, MySQL, MS SQL Server, MongoDB (NoSQL).
- **Programming:** C, Python, Pandas, NumPy.
- ETL and Visualization: Airflow, DBT, SSIS, SSAS, Azure Data Factory (ADF), Power BI, Tableau, QuickSight.
- Tools and Operating Systems: Git, Visual Studio Code, Linux.

CERTIFICATIONS AND ACHEIVEMENTS

- Best student award in Database Systems and Analytics class (SJSU). Star of the Quarter (MAQ Software).
- 70-761: Querying Transact-SQL. 70-778: Visualizing Data Power BI, <u>DataLemur, Microsoft Learning Badges</u>

EDUCATION

Master of Science, Data Science & Analytics, San Jose State University, San Jose, California, USA. **Bachelor of Technology**, Computer Science. JNTU, Hyderabad, India.