ABHINAV ALAHARI

Data Engineer | Collierville, TN | 6788969135 | abhinava2712@gmail.com | Linkedin

Education

WILMINGTON UNIVERSITY	**New Castle , Delaware**
Masters in Information Systems Technology, CGPA- 3.79/4.0	*June 2024*

Relevant Coursework:
Data Management, Cloud Management, IT Policy and Strategy, Project and Change Management, Information Assurance Integration, OS and Computer System Security, Web and Data Security, Incident Handling and Response, Data Communications and Networking, Analysis, Modeling, and Design.

Skills

- **Programming Languages:** Python, SQL, JavaScript/Jquery
- **Databases:** MySQL, PostgreSQL, SQL Server,
- **Data Storage**: SQL, Amazon Redshift, Google BigQuery, Snowflake
- **ETL Tools**: Apache Airflow, Talend, Informatica
- **Misc Tools**: Git CI/CD, GitHub Actions, Excel, R/RStudio

Professional Experience

Terminix
Memphis, Tennessee
Data Engineer Intern
June 2024 – September 2024

- Developed Batch and Real-Time data processing pipelines using AWS Glue, automating ETL processes and reducing data latency, thereby improving data availability for downstream applications
- Created RESTful API'S using Flask as Backend service. Reconfigured batch jobs scripted in Python to update Warehouse and client-store data ensuring data sync.
- Used Kibana to update app activity logs for analytics and event details. CI/CD using GitHub Actions, Deployed application build as Docker image as an auto-scaling serverless container.

UPS
Chennai, India
Data Engineer
October 2021 – April 2022

Engage in enterprise-wide projects including integration testing, status meetings, and system testing. Leverage engineering, mathematical models, and financial formulate application code and programs. Build complex queries and generate models for data insights in Snowflake. Assist in performance improvement through analysis of an external software component (CATA) upgrade and analysis of program performance, resulting in improved efficiency and elimination of bottlenecks.

- Leveraged CI/CD pipelines in GitHub to deploy workflows/packages across multiple environments.
- Utilized structured tools and utilities within Informatica and Sis to develop comprehensive test plans.
- Supported team with data analysis requests, performance tuning, internal controls, and other aspects of the data flow processes.
- Designed multiple Python data pipelines for loading historical data as part of a backfill process from Oracle/SQL Server to Snowflake, achieving a 10% reduction in processing time.
- Contributed to initiatives involving the migration of relational databases into Azure Data Factory.

Project

Ethical Web Tracking and Privacy Framework
Developed an ethical framework and Python-based tool for evaluating web tracking practices, ensuring compliance with privacy standards.
- Designed an ethical framework using deontological ethics to safeguard user privacy and autonomy.
- Built a tool to simulate web tracking data collection and analyze privacy risks using Python and SQLite.
- Visualized privacy risks and actionable insights using Matplotlib.
- Followed SDLC principles to plan, design, develop, and test the system.
- Delivered a final report highlighting privacy violations and recommendations for compliance.

Movie Recommender System - Python, Numpy, Pandas, Matplotlib

- Designed and developed a sophisticated movie recommender system in Python's Jupyter notebook using advanced vectorization techniques, achieving 95% accuracy in recommending similar movies.
- Demonstrated strong analytical and data science skills in data preprocessing, recommendation algorithms, and front-end development, using real TMDB dataset.