Punya Ira Anand

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SKILLS

Programming: Python, SQL, No SQL, Unix, Shell Scripting
Database: PostgreSQL, MS SQL Server, MongoDB, Hadoop (HDFS, HBase, Hive)
Cloud Services: AWS (Glue, Athena, EC2, CloudWatch, Sage Maker, Kinesis, EMR, Amplify) **CI/CD:** Git, GitHub, Jenkins
Certification: AWS Certified Solutions Architect – Associate
Core Skills: Data Structures and Algorithms, Object Oriented Programming

EDUCATION

The University of Texas at Dallas January 2024 – May 2025
Master of Science, Information Technology and Management (STEM)

WORK EXPERIENCE

Teaching Assistant | University of Texas at Dallas | United States May 2024 – May 2025

- Assisted in the development of a Python script that created a .dat file for students, which was later converted into a CSV file using the pickle module for data serialization and manipulation and provided support to 120 students.

Senior Software Engineer | Wipro Technologies | India July 2022 – January 2024

- Designed and implemented Python-driven ETL pipelines to integrate, clean, and transform claims data from four diverse sources, reducing computation time by 20 hours and enabling seamless reporting.
- Implemented jobs to maintain integrity of incoming data streams ensuring GDPR compliance above 70%.
- Leveraged Proc SQL within Python(SASPy) to automate processes and generate reports, optimizing data storage within SAS data warehouse by 10 hours.
- Worked on advanced SQL queries for the Healthcare database for calculating and computing columns, using filters, manipulating, and preparing data for reporting, and statistical summarization.
- Developed data mining jobs using Proc SQL and Python Scripts to extract insights from policy data, enriching the data landscape. This initiated a result in a 5% improvement for the business.

Software Engineer | Wipro Technologies | India January 2020 – June 2022

- Managed and optimized analytics environments using SQL Server Management Studio (SSMS) and PostgreSQL. Ensured database performance through real-time monitoring, query tuning, and system reliability practices.
- Revamped a healthcare analytics product by building claim processing data pipelines on the IBM cloud.
- Constructed and managed Python scripts to facilitate batch processing, automating tasks related to data loading and transformation, thereby enhancing workflow efficiency by 8%, and optimizing performance within SAS environments.

PROJECT EXPERIENCE

Wild Rydes Application on AWS August 2025 – December 2024

- Developed a serverless ride-sharing app with AWS Amplify, Cognito, Lambda, API Gateway, and DynamoDB, enabling secure user login, ride requests, and real-time data updates within a time span of 45 seconds.
- Automated deployment workflows with AWS Amplify, streamlining frontend updates, API integration, and secure authentication through Cognito for a dynamic user experience.

End-to-end Data Engineering on AWS May 2023 – Jun 2023

- Spearheaded a YouTube video analysis project, leveraging Python and AWS services (S3, Glue, Lambda) to extract, transform and load the data in Redshift warehouse; empowered real-time analytics with 50% quicker query responses.
- Automated the pipeline with Airflow DAG and used Quick Sight to visualize video trends based on category and location.

Truck Fleet Risk Analysis on Hadoop May 2024 – August 2024

- Ingested fleet data to HDFS with Sqoop and established HIVE tables, enabling exploratory data analysis.
- Pioneered Tableau dashboard creation that harnessed the insights from the Hadoop cluster and integrated predictive models in R to forecast risk with 92% accuracy, enabling proactive measures to optimize truck fleet operation.

Relational Database Design January 2024 – May 2024

- Designed DB Schema in PostgreSQL, normalized data for storage, retrieval, and manipulation.
- Crafted SQL queries on Oracle Database to provide insights for café performance and customer behavior.

Analysis of COVID-19 Cases in U.S.A January 2024 – April 2024

- Conducted outlier detection, feature engineering, and visualization for 30,000+ data points, identifying key healthtrends.
- Built Tableau dashboards revealing factors like higher urban vaccination rates (+30%), Delta variant case spikes (+60%).

Data Analysis and Visualization Using Python January 2024 – April 2024

- Established a data visualization project using Python to analyze job application trends, providing actionable insights.
- Utilized pandas library for data manipulation and Matplotlib/Seaborn libraries for creating insightful visualizations.