Vineethpal Reddy Adla

Portfolio: vineethpalreddy.github.io
Github: github.com/VineethpalReddy

Email: avineethpalreddy1497@gmail.com
Mobile: +1 (314)-329-1053

EDUCATION

- **Saint Louis University** — St. Louis, MO
  Masters - Information Systems; GPA: 3.78/4.00 — *Aug 2023 - May 2025*
  Courses: *Proficient in Information Systems technologies, including database management, cloud computing (AWS), data engineering (Apache Spark), networking analysis (Wireshark), full-stack development, and containerization (Docker)*

SKILLS SUMMARY

- **Languages:** Python, JavaScript, SQL, Bash, Java (SE8)
- **Frameworks:** Apache Spark, Apache Arrow, Apache Airflow, Apache Kafka, Apache Hudi, Apache Hive, Apache Hadoop, FastAPI, Flask, NodeJS, Pandas, ReactJS
- **Tools:** Kubernetes, Docker, GIT, PostgreSQL, Redis, Hadoop, Terraform
- **Platforms:** Linux, MacOS, Windows, AWS, Azure, Atlassian JIRA, Postman
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- **Talent INC** — Remote
  Senior Software Engineer (Full-time) — *Jan 2023 - Aug 2023*
  - Successfully implemented a caching from scratch within the All APIs, which led to a remarkable 60% reduction in application costs. Caching eliminated redundant database queries for the same requests, directly impacting AWS billing.
  - Managed complete data engineering pipelines using Apache Airflow, Spark and Other AWS services from developing to deploying.
  - Authored more than 50000 lines of code, meticulously managed via GitHub, with work progress tracked through the JIRA dashboard.

- **Colgate-Palmolive** — Hyderabad, Telangana
  Solution Architect — *June 2022 - Jan 2023*
  - Authored and maintained more than 500,000 lines of Python code, pivotal in constructing data pipelines, REST APIs, and DAGs.
  - Implemented Slow Changing Dimensions (SCD) using the Data Build Tool (DBT), with a primary focus on the SCD-2 paradigm, as it aligns with our interest in tracking change patterns, which significantly influence the calculations.
  - Engineered all pipelines in batch processing mode, given that calculations rely heavily on Time Series Data Analysis.

- **Annalect (Omnicomm Media Group)** — Hyderabad, Telangana
  Data Developer — *June 2020 - June 2022*
  - Developed 25 Databricks jobs utilizing Apache Spark for efficient data ingestion into the staging area. These jobs handled diverse data types such as XML, Excel, CSV, JSON, Parquet, and more.
  - Designed and deployed Dockerized Airflow environments, hosted on Azure App Services, facilitating job scheduling and monitoring.
  - Orchestrated mail sending processes using the Azure Queue Storage service, allowing efficient queuing of messages for tracking, all of which were initiated by Airflow DAGs.
  - Developed a REST service for report generation, leveraging the Pymupdf module to dynamically generate PDF reports.
  - Using transfer learning trained a VisualBERT model and RoBERTa model, while deploying these two models as a service for extracting text from handwritten papers, bills and more similar images.

PROJECTS

- **Safety Aware Drone Ecosystem's Back end and Front end (SADE)**
  SLU Graduate Research Assistant — *Jul 2024 - Present*
  - Implemented the whole back end from scratch with MQTT and Database integration to facilitate the transfer of drone configuration configured by user to SADE simulation stack which comprises of PX4, Gazebo and Unreal Game Engine to enable simulation.
  - Optimized the existing front end to support real time changes from user for butter smooth experience. Also integrated Cesium JS components to enable Google Maps 3D tiles for precise location configuration for better user experience.
  - Worked with Tech Stack Python, Fast API, Mosquitto MQTT, Mongo DB, Docker, GitHub Actions, React JS, Cesium JS, Docker Compose

Honors and Awards

- Rise and Shine Award from Annalect India - Feb 2022
- On Spot Award from Annalect India - May 2022