

Date Engineer

↑ Chennai | **Mobile \:**: +917598193064

Data Engineer specializing in cloud-native pipelines (Airflow/Spark) and API development. Proven in optimizing AWS costs (25% reduction) and containerized deployments (70% faster).

Skills

Languages - Python (FastAPI) | TypeScript (NestJS) | SQL | ReactJS

Databases - PostgreSQL | MySQL

Cloud & BigData - AWS (EMR | S3 | EC2 | CloudWatch), Apache Spark, Databricks, Data Modelling

DevOps/Tools - Docker, Git/Github, Apache Airflow

Work Experience

TerraFinn Technologies | Data Engineering Intern

March 2025 - present

- Built and automated distributed data pipelines on AWS using Apache Airflow and Spark, orchestrated via EMR clusters
- Reduced compute cost by 25% by shifting from On-Demand to Spot Instances and tuning EMR bootstrap actions for specific workload sizes
- Developed production-ready applications using NestJS, FastAPI, and React
- Containerized applications using Docker, improving deployment efficiency by 70%

Project Experience

Automated AWS EMR Pipeline | Airflow, AWS EMR, Spark, S3, Cloudwatch | github

March 2025 - April 2025

- Implemented Airflow DAGs to trigger Spark jobs on AWS EMR with job-specific cluster configs
- Used custom cluster configuration scripts to allocate resources based on job type, reducing overall compute time by 40%
- Processed datasets using Spark, reducing execution time by 40%
- Enabled parameter passing using Airflow XComs and created custom Sensors to wait for EMR step completion
- Configured CloudWatch dashboards for real-time visibility into job execution and resource usage

Tara API - Vehicle data management | FastAPI, React, PostgreSQL | github

April 2025 - May 2025

- Developed a full-stack vehicle data management platform reducing manual data entry by 80%
- Delivered 5+ RESTful API endpoints with JWT Authentication
- Built responsive, user-friendly interfaces in React, improving user efficiency by 50%
- Containerized application and database services with Docker, achieving 100% reproducible deployments and reducing setup time by 70%

NestJs REST-API | TypeScript, NestJS, JWT, PostgreSQL, Docker | github

May 2025 - July 2025

- Designed a modular NestJS application supporting 15+ REST endpoints for CRUD operations on user data and uploaded files
- Integrated JWT auth with rate-limiting (5 requests/min) and enforced RBAC and request validation using pipes, reducing unauthorized access attempts by **90**%
- Integrated Cloudinary for secure file uploads with metadata support
- Used DTOs and Pipes for strong input validation and transformed request data for secure processing
- Achieved 100% reproducible deployments using docker container

Education

Sri Ramakrishna Institute of Technology

Bachelor of Mechanical Engineering - CGPA: 7.8

Coimbatore

August 2017 - April 2021

Certification

- Astronomer Certification for Apache Airflow 3 Fundamentals
- Awarded a Cambridge English Entry level certificate in ESOL International (level-3) Business preliminary