Gaurav Patel

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Professional Summary

Detail-oriented Full-Stack & Cloud Developer with hands-on experience in building ETL pipelines, cloud-native applications, and scalable software solutions using Python, SQL, AWS, and ReactJS. Proficient in data cleaning, automation, API development, and cloud infrastructure using services like AWS Glue, Redshift, S3, and Step Functions. Eager to contribute enthusiasm, adaptability, and a fresh perspective to a dynamic team.

Key Skills

Programming: Python, C++, SQL, DSA, System Design, OOPs
Cloud & Big-Data: AWS (S3, EC2, Glue, Redshift, CloudFront, Step Functions, EMR), Docker, PySpark, Hive, Presto
Databases: MySQL, Redshift
Tools & Frameworks: GitHub, ReactJS, NodeJS

Experience

MDaRT Design Innovation Center | Project Intern
- Developed a React Native app integrated with ESP32 microcontrollers and reflex sensors, enabling real-time finger joint motion tracking via Bluetooth serial communication.
- Implemented Firebase storage and analytics for historical data visualization and validated system accuracy for clinical rehabilitation testing.

Projects

Webify – Cloud-based Hosting Platform | webifyapi.in
- Developed a production-grade hosting platform with GitHub authentication and CI/CD pipelines using GitHub webhooks, enabling seamless deployment workflows.
- Containerized user applications with Docker and deployed 25+ web apps on AWS (EC2, S3, CloudFront), ensuring zero downtime and scalable performance.

ETL Pipeline for NYC Taxi Dataset
- Designed ETL pipeline with PySpark, AWS S3, Glue for large-scale taxi trip data.
- Applied data cleaning & anomaly detection; engineered new features (Haversine trip distance, datetime features).
- Optimized analytics by loading enriched data into Amazon Redshift, reducing query latency.

Airline Dataset Ingestion & Processing Pipeline (AWS)
- Automated ingestion of daily flight data into S3, with ETL workflows triggered by EventBridge and transformations performed using AWS Glue.
- Orchestrated workflows via Step Functions and integrated SNS notifications, providing real-time monitoring and reducing manual intervention by 90%.

Education

UIET Panjab University, Chandigarh   B.E/B.Tech
B.E., Electronics and Communication Engineering
2022-2026

Certifications & Training

AWS Cloud Practitioner Essentials – Gained foundational knowledge of AWS architecture, services, pricing, monitoring, and security to design and scale cloud-native applications.
Amazon EMR – Hands-on with EMR Serverless and Clusters for **big data processing** using Apache Spark, Hive, and Presto. Learned to automate, scale, and optimize distributed data environments on AWS.