BHEEMENDER GURRAM

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SUMMARY

Cloud & Data Engineer with expertise in designing and implementing scalable data pipelines, zero-downtime migrations, and cloud transformations. Proven track record in optimizing data workflows, reducing latency, and automating deployments across **AWS, Oracle Data Integrator (ODI), PySpark, and CI/CD pipelines**. Strong background in **ETL/ELT, real-time data processing, and infrastructure-as-code (Terraform)**. Passionate about solving complex data challenges with innovative, cost-efficient solutions.

EXPERIENCE

IBM | *Data Engineer*   **Apr 2021 - Dec 2022**

Project: Maaden Cloud Transformation Project (Saudi Arabian Mining Company)

- Zero-Downtime Migration: During the cutover, we designed a **dual-write pipeline for Ma'aden's financial data**, avoiding $2M+ in downtime risks.
- Migrated 12 legacy systems (Fusion, flat files) from **on-premises cloud warehouse via ODI**, slashing executive report latency from 4hrs to 45min - showcased during Phase 1 demo to Ma'aden leadership, where live crisis data enabled same-day decisions during Q3 budget shortfall
- **Led Oracle Fusion/OBIA upgrades**, designing **15+ reusable ODI mappings, load plans, and packages** that cut pipeline development time by **40%** and reduced production errors by **35%**.
- Boosted data accuracy by implementing **Type 1/2 SCD mappings** for client-specific requirements, ensuring **99.9% consistency** in financial and operational reporting.

Project: Vanguard Transformation Project – Data Pipeline Implementation

- Designed and implemented an end-to-end cloud data pipeline to ingest and process Crew Data (HCM-type) from 22+ formats (CSV, JSON, XML, Parquet) across sources like PwC, Salespoint, and ServiceNow
- Built a **three-layer S3 data warehouse (Raw, Stage, Consumption)** with incremental ingestion via AWS Lambda, API Gateway, and DataSync.
- Transformed **complex datasets using AWS Glue (PySpark)** with dynamic schema evolution logic to handle client-side format changes. Enabled real-time querying with Athena and integrated with Tableau for dashboard visualization.
- Automated pipeline deployments using **Bitbucket CI/CD (YAML pipelines)** and orchestrated data jobs using AWS Step Functions with robust error handling.
- Migrated data across **multiple environments (DEV 'SIT 'UAT 'PROD) using Git PR flows** and release management, ensuring seamless transitions and minimizing downtime.

Virtusa | *RPA Developer Intern*   **Jan 2020 - Jun 2020**

- Developed an RPA bot to automate parent outreach, enhancing communication efficiency
- Processed over 500 student records nightly, triggering personalized emails to improve engagement
- Cut notification lag from 3 days to real-time for urgent academic alerts

SKILLS

- AWS (EC2, S3, API GATEWAY, Athena, Step functions, GLUE, Lambda, DynamoDB), Apache Spark, Airflow, Kafka, ODI, Snowflake, Python, SQL, Java, Shell Scripting, OracleDB, Tableau, OBIEE, BitBucket, CI/CD, Terraform

PROJECTS

Cloud Resume Challenge   **Live Link:** cloudresumewithbheem.netlify.app/

- Designed and deployed a serverless personal resume website using AWS services
- Cost-Optimized: Cut DynamoDB bills by 70% by adding TTL to visitor logs.
- Infra-as-Code: Deployed via Terraform, reducing setup time from 3hrs to 15min.
- CI/CD: GitHub Actions auto-test deployments (saved 5 hours/week in manual checks).

Automated ETL Pipeline with Apache Airflow

- Designed and automated an ETL pipeline using **Apache Airflow on AWS EC2**, orchestrating data extraction, transformation, and loading (ETL)
- Integrated **OpenWeatherMap API** to extract real-time weather data, transformed it using Python and stored the processed data in AWS S3.
- Configured **Airflow DAGs** for workflow automation and **leveraged AWS CLI** for seamless cloud resource management

EDUCATION

University of Central Missouri | *Master of Science, Computer Science*   **Dec 2024**

Chandigarh University | *Bachelor of Science, Computer Science*   **Aug 2020**