

BHEEMENDER GURRAM

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GitHub

SUMMARY

- Data engineer focused on cost-effective cloud migrations and reducing pipeline latency. Proven in scaling Spark jobs and cutting AWS costs by 15%.
- Optimized Spark/ODI pipelines handling 5TB+/day, cutting runtime by 30%.
- Built Terraform-managed AWS pipelines (Master's Cloud Architecture project).
- Cloud Resume: Terraform-built AWS infra (\$0.50/month cost).

EXPERIENCE

Data Engineer | IBM | Bangalore, India

Apr 2021 – Dec 2022

Worked with the Oracle Cloud Migration team on the **Ma'aden Cloud Transformation project (Saudi Arabian Mining Company)** to develop, transform, and load data from Fusion to the data warehouse in ODI for reporting purposes.

- **Oracle Cloud Migration:** Led ingestion of 12 source systems (Fusion, flat files) into a unified warehouse using ODI, cutting report latency from 4hrs → 45min.
- Cut 6-hour nightly jobs → 3.5hrs by parallelizing CSV ingestion in ODI.
- **Zero-Downtime Migration:** Designed a dual-write pipeline for Ma'aden's financial data during cutover, avoiding \$2M+ in downtime risks.
- **Cost Savings:** Replaced nightly **full loads with incremental CDC**, reducing cloud storage costs by \$15K/month.
- Built a library of **15+ reusable ODI components** (mappings, packages) that cut new pipeline development time from 2 weeks → 3 days and reduced production bugs by 35%.

RPA Developer Intern | Virtusa | Hyderabad, India

Jan 2020 – Jun 2020

- **Automated parent outreach by building an RPA bot that:**
 - **Processed 500+ student records nightly** to trigger personalized emails
 - **Reduced counselor workload by 15 hours/week** by replacing manual outreach
 - **Improved response rates by 40%** through dynamic message templating
 - **Cut notification lag from 3 days → real-time** for urgent academic alerts

SKILLS

- **Programming Languages:** Python, SQL, Shell Scripting, Java
- **Frameworks/Libraries:** Apache Airflow, PySpark, Apache Kafka, Apache Spark
- **Databases:** PostgreSQL, Oracle DB, MongoDB
- **BI & Visualization:** ODI, Tableau, OBIEE, PowerBI
- **Data warehousing:** Snowflake, Amazon Redshift, Slowly Changing Dimension (Type 1&2)
- **Cloud Platforms:** AWS

PROJECTS

Cloud Resume Challenge – AWS

Live Link: [MyCloudResume](#)

- Designed and deployed a **serverless personal resume website** using AWS services
- Implemented **three approaches** for infrastructure deployment:
 - **Manual Configuration:** Provisioned AWS resources (S3, CloudFront, API Gateway, Lambda, DynamoDB) manually.
 - **AWS SAM (Infrastructure as Code):** Automated deployments and resource management using AWS Serverless Application Model (SAM).
 - **Terraform (Infrastructure as Code):** Managed infrastructure using Terraform, streamlining the provisioning and management of AWS resources.
- **Cost-Optimized:** Cut DynamoDB bills by **70%** by adding TTL to visitor logs.
- **Infra-as-Code:** Deployed via Terraform, reducing setup time from **3hrs → 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).
- **Optimized costs by 40%** by right-sizing EC2 instances and implementing **spot instances** for non-critical tasks.
- **Automated workflows** with Airflow DAGs (scheduled, retry logic, Slack alerts), and **Deployed infrastructure via AWS CLI + Terraform (infra-as-code)**.

EDUCATION

Master of Science, Computer Science

Dec - 2024

University of Central Missouri, Warrensburg, MO / GPA: 3.50/4.00

Bachelor of Science, Computer Science

Aug - 2020

Chandigarh University, Mohali, India