

Ashley Sunil

AVP - Data Engineer | UAE Golden Visa Holder

Accomplished AVP of Data Engineering with ~10 years of experience, specializing in designing and implementing innovative solutions that solve complex business challenges through robust data engineering strategies at scale. Successfully leading a team of 10+ cloud data engineers, partnering closely with C-level executives to conduct architecture reviews, shape technical strategies, and ensure the successful execution of projects from start to finish.

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WORK EXPERIENCE

Assistant VP - Data Engineering | Barclays

August 2022 – Present

Pune, India

- **On-Cloud Data Protection Service** - Lambda based capability for end users to protect/unprotect data stored on AWS through Athena, REST API gateway and Redshift.
 - Created custom authorizer lambda to validate user identity using in house access management API and cloud formation templates for deploying Athena protector products.
 - Oversaw the project delivery, achieving **25%** reduction in delivery time, efficiently allocated resources resulting in **15%** cost savings, and optimized sprint planning, boosting team productivity by **30%**.
- **Data Hydration to AWS**
 - Worked with multiple teams to onboard data to AWS which helped meet organization's objective to move **~40%** data to cloud.
 - Created a history data migration framework using Pyspark to extract **50TB** data from on premise Hadoop cluster and move to AWS using snowball device.
 - Created and deployed linux based service for data copy from snowball s3 buckets to enterprise data lake on cloud using CHEF, thereby reducing man-hours by **30%**.
- **Leadership and People Management**
 - Led a team of **10+** data engineers, driving key projects while providing mentorship, support, and fostering professional growth, and successfully reducing attrition by **20%**.

Lead Data Engineer | Barclays

August 2020 – August 2022

Pune, India

- **Group Record Management Standards (GRMS)** - Hadoop based tool to implement new regulatory requirements across the entire organisation.
 - Developed a utility to identify trigger records based on custom closure criterions provided by the business using Spark & Spark SQL.
 - Implemented a new disposal framework in Spark to identify & discard records that crossed the retention period, and optimized the performance to reduce processing time by **3x**.
- **Harmonization** - Technical initiative aimed to facilitate the company's journey to Global Data Platform.
 - Automated data copy for records spanning **~350** tables using Cloudera DistCp, resulting in a **35%** reduction in migration time. Additionally, developed a first-of-a-kind Spark-based tool that automatically converted source data to match GDP standards
 - Slashed space consumption by **60%** by devising a solution on Spark which followed the best practices of data partitioning and storage.
- **Leadership and People Management**
 - Successfully led a team of **6** data engineers and mentored multiple graduate trainees, delivering crucial projects and providing guidance, support, and career advancement opportunities.

Senior Data Engineer | Barclays

June 2018 – August 2020

Pune, India

- **Bigdata ETL (BETL)** - A Hadoop based tool to create and manage ETL jobs in Bigdata world which includes a scalding based CDC framework and Spark based Data Transformation Framework.
 - Decreased the storage overhead by **50%** on HDFS by implementing a Parquet Merger Utility to address multiple part file issues, and developed a Housekeeping and Archival Framework on HDFS and local edge node using Pig & Shell scripting.
 - Achieved on time delivery of key modules by mentoring & managing **3** Graduate Analysts/Trainees.
- **Partner Finance Accelerate** - Growth Initiative aimed to provide insights through a digital platform for business customer.
 - Improved daily job monitoring efficiency by **2x** for end users by developing a Reconciliation and Audit Control Framework using Impala and HBase. Achieved **30%** reduction in data processing time for decisioning and release, by spearheading the acquisition and transformation of 45 delimited files.
 - Saved **4** manpower days per week by automating the execution of **200+** critical business jobs using Tivoli Workload Scheduler.

Test Analyst | Infosys

Jan 2018 – June 2018

Pune, India

- **Financial Data Warehouse**
 - Transformed diverse data formats into Financial Data Standard, developed and implemented comprehensive test plans and scenarios, and provided regular status updates to stakeholders, enhancing data consistency, accuracy, and project alignment.

Programmer Analyst | Cognizant Technology Solutions

Oct 2014 – Jan 2018

Pune, India

- **Strategic Data Migration Information (SDMI)** - Program tasked to introduce an enhanced solution to support end to end reporting that acts as one-stop-shop for all Data and MI.
 - Devised Test Strategy and associated artefacts (DSR, WSR) based on business requirements, participated in Sprint Planning, Scrum, and Retrospectives, and performed data validations for SCD, Data Transformation Jobs, and report accuracy.
 - Achieved a **90%** reduction in post-release issues, by identifying and tracking critical defects to closure in JIRA, and conducting thorough Regression Testing.
- **Automated Data Validation Solution** - To validate and match sampled data using **Impala and Excel**.
 - Enhanced data accuracy by **95%** through a solution that reconciled gigabytes of data loaded in Hive tables, and applied complex custom matching logics of the records with source data.

SKILLS



EDUCATION

B.Tech – Information Technology

Park College, Anna University,
Coimbatore | Jul 2010 – Jul 2014

CERTIFICATES

- IBM Certification in Bigdata Fundamentals.
- IBM Certification in Hadoop Fundamentals - Hive, Pig & HBase.

AWARDS AND RECOGNITIONS

- Ranked among the top 10 teams out of 150+ teams in the Barclays AWS Deep Racer Community Racing Event 2024.
- Barclays Global Recognition Reward for Diversity of thought and challenging the status quo – 2023.
- Barclays Global Recognition Reward for Value of Service 2019 & 2021.
- Barclays Global Recognition Reward for Excellence 2018 & 2022.
- Cognizant Quarterly Champion Reward Q4 2017.
- Awarded Cognizant Innovation Spirit – 2016 for Contributing \$5587 as Innovation Value to Cognizant.

OTHER ACTIVITIES

- Active participant in Barclays hiring committee for Big Data roles since 2020.
- Volunteered for Barclays Water Cup in Rise Village.
- Part of Organizing Committee for Barclaycard Box Cricket Tournament.
- Participated in Marathons for Women Empowerment – Flo Pune Half Marathon 2018 and Pinkathon Pune 2019.