Amey Meher

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Education

North Carolina State University - Raleigh *August 2022 - May 2024*
Master's, Computer Science *GPA: 4*

University of Mumbai *August 2015 - May 2019*
Bachelor's, Computer Engineering *GPA: 9.14*

Skills

Programming Languages: Python, Java, SQL
Data Engineering: Hadoop, Hive, Spark, Airflow, Arrow, Oracle, MongoDB, Kafka, Cassandra
Web Services: Microservice Architecture, REST APIs, Flask, Spring, Postman, Docker, Kubernetes, Git
AWS: S3, Lambda, DynamoDB, Redshift, API Gateway, IAM
Azure: Data Factory, Databricks, Data lake storage Gen 2, Synapse Analytics, HDInsight, Fabric
Courses: DBMS, Automated Learning & Data Analysis, Machine learning on graphs, Data Structures & Algorithms, OOP Methodology

Professional Experience

Barclays
Data Engineer *July 2019 - July 2022*

- Led development for 4 ETL projects on managing data pipelines; being responsible for design, code, unit & integration tests, migration to Prod with CI/CD, compliance checks, project documentations and handover to support team.
- Achieved 99% optimization in Hadoop and Spark jobs used for extracting risk metrics from datasets having millions of records; solving a scaling bottleneck in a critical service which was used to calculate risk scores of customers.
- Integrated data from 50+ tables for creating JSON of over 12000 complex elements. Developed automated jobs to call APIs with these JSONs as payload for parallel testing of a migration project, which reconciled data between 16 different tables
- Collaborated with data engineers, product managers and data scientists, representing key insights with data visualization (Power BI) of production data in an intuitive way, which helped us secure stakeholder's signoff for a major project.
- Certification: AWS certified Cloud Practitioner

IBM
Backend Software Engineer Intern *May 2023 - August 2023*

- Contributed to efficient job scheduling on Quantum computers by deriving queue idle time metric using optimized InfluxDB queries on past 3 years of data.
- Implemented a highly scalable RESTful web service using Flask in a microservices architecture for synchronization of metadata in MongoDB backend using Kafka and a stream processor reducing manual efforts of 40+ hours per week.

Projects

WolfMedia: Spotify-centric Database Management System

- Visualized metrics for getting insights about user statistics, created scalable APIs and managed data warehouse for streaming data

Stock Price Prediction using Graph Neural Networks

- Developed a stock price prediction system using GCN and LSTM models. Implemented using PyTorch and TensorFlow frameworks.

Android application based on Proximity reminder - Oncue

- Awarded first place for amassing 500+ downloads on Playstore for a Hackathon in collaboration with Facebook developers’ circle