

AMEY MEHER

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SUMMARY

Experienced software engineer with a proclivity for optimizing data driven systems. Adaptable and ardent about catching up with the latest tech, having hands-on experience in the data world, developing, orchestrating, analyzing, and optimizing data pipelines for 3+ years

EDUCATION

North Carolina State University - Raleigh
Master's, Computer Science

August 2022 - May 2024
GPA: 4

Mumbai University
Bachelor's, Computer Engineering

August 2015 - May 2019
GPA: 9.14

PROFESSIONAL EXPERIENCE

IBM

Quantum Research Scientist Intern

White Plains, NY, USA
May 2023 - August 2023

- Developed an unsupervised clustering model using DBSCAN algorithm to analyze incidents on quantum hardware systems, enhancing business performance by suggesting resolution steps for new incidents based on historical data.
- Deployed a Python script to calculate queue idle time metrics on IBM hybrid cloud, contributing to efficient job scheduling on Quantum computers. Formulated optimized InfluxDB queries for large amounts of data achieving rapid query completion.
- Implemented a CRON job in a microservices architecture for periodic synchronization of Quantum system metadata in MongoDB backend. Leveraged Kafka and a stream processor for streamlined data publishing in MongoDB database.
- Earned the Associated Certified Developer: Quantum Computation using Qiskit v0.2x certification by IBM
- Successfully completed the Qiskit Summer School, mastering Quantum Algorithms and foundational concepts.

Barclays

Platform Developer

Pune, IN

July 2019 - July 2022

- Led development for 4 ETL projects across the complete SDLC, fostering business banking growth by ensuring successful deployment to Production using CI/CD and effectively communicating with cross-functional teams for seamless integration.
- Proactively achieved 99% optimization in Hadoop jobs used for extracting critical metrics from massive datasets having millions of records; solving a scaling bottleneck in a critical service which was used to calculate risk scores of Loans and Mortgage products
- Integrated data from 50+ table sources of Oracle for creating JSON of over 12000 complex elements. Developed automated Ab Initio jobs to call APIs using these JSONs for parallel testing of a migration project, which reconciled data from 8 different tables
- Developed and implemented 5 hierarchical levels for data comparison using automated jobs, facilitating data visualization for the front-end and supporting the SDLC of the project with actionable insights, resulting in stakeholder sign-off for a major project.
- Developed a test automation service in Python to promote test-driven development which helped developers in running over 500 test jobs simultaneously in development environment; executing each of the jobs using concurrent programming on different threads.

Eloquent Techart India Pvt Ltd

Software Developer Intern

Mumbai, Maharashtra, India

January 2018 - March 2018

- Managed databases for medical data maintenance, ensuring a seamless user experience for an Android application
- Designed and deployed well-documented APIs for medical data related to patients and doctors using Swagger API
- Integrated APIs, collaborated with stakeholders to shape higher-level project entities, and addressed client's requirements

PROJECTS & OUTSIDE EXPERIENCE

Android application based on Proximity reminder - Oncue

- Led the entrepreneurial planning and implementation of a real-time app, showcasing adept prototyping, non-relational database utilization, and backend development leadership.
- Developed and deployed a proximity-based reminder application, showcasing strong prototype development skills and attracting over 500 active users on the Play Store.
- Awarded first place as part of 6 member team in Codeadventure Marathon in collaboration with Facebook developers' circle for creating, deploying, and presenting a fully functional mobile application named "OnCue" in 30 days.

SKILLS

Programming Languages: Python, Java, C++, SQL, NoSQL, Javascript, Unix/Linux Scripting, Qiskit, HTML, CSS

Technologies: REST APIs, Flask, Spring Boot, Hadoop, Hive, AWS, Spark, Ab Initio, ETL, Kafka, Oracle, Teradata, MongoDB, Docker, OpenShift, Kubernetes, Microservices, InfluxDB, Android Studio, Git, Github, Agile Methodology, Jenkins, VS code, IntelliJ IDEs

Courses: DBMS, Automated Learning & Data Analysis, Machine learning on graphs, Data Structures & Algorithms, OOP Methodology

Awards / Extracurricular

- AWS certified Cloud Practitioner
- Secured first place in IETE-KJSCE-ISF Project Competition for presenting our project on Canteen Automation System
- Created an app for Indian Railways for Efficient Coach Management of Train Coaches as part of an internship
- Winner of CodeAdventure challenge organized by Riidl in association with Facebook developer circle