AMEY MEHER

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EDUCATION

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

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

PROFESSIONAL EXPERIENCE

IBM   **White Plains, NY, USA**
Software Developer Intern   *May 2023 - August 2023*
- 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.
- Designed and implemented a RESTful web service 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.
- 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.
- 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   **Pune, IN**
Data Engineer   *July 2019 - July 2022*
- Led development for 4 ETL projects on managing data warehouse for product analytics; being responsible for design, code, unit & integration tests, migration to Prod with CI/CD, compliance checks, project documentations and handover to support team
- 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
- Collaborated with data engineers, product managers and data scientists, representing key insights with data visualization of production data in an intuitive way exhibiting business intelligence, which helped us secure stakeholder's signoff 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   **Mumbai, Maharashtra, India**
Software Developer Intern   *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

WolfMedia: Spotify-centric Database Management System
- Designed and implemented an OLTP system for managing application data and an OLAP system for data analysis, utilizing MySQL for the database, Spring for API development and Spark, Hadoop and Airflow for data processing tasks in our data warehouse
- Developed and executed comprehensive test strategies, test plans, and test cases, including automation with Selenium and Postman for API validations. Also developed data models for fast, reliable and user-friendly data querying and data mining.
- Managed the entire project using a Github repository for source code management and employed Github projects kanban board for defect tracking, ensuring seamless collaboration and maintaining robust software development and testing pipelines.

SKILLS

Programming Languages: Python, Java, C++, SQL, NoSQL, Javascript, Unix/Linux Scripting, Qiskit, HTML, CSS
Technologies: ETL, Hadoop, Hive, Spark, Ab Initio, REST APIs, Airflow, Flask, Oracle, MongoDB, Teradata, Spring Boot, AWS, Azure, Kafka, Docker, OpenShift, Kubernetes, Microservices, Android Studio, Git, Github, Agile Methodology, Jenkins
Courses: DBMS, Automated Learning & Data Analysis, Machine learning on graphs, Data Structures & Algorithms, OOP Methodology
Soft Skills: Time management for multiple priorities, Code reviews, Fast Learner, Great communication with cross-functional teams

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*