# 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.
- 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.
- 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, being responsible for design, coding, unit testing, working with teams for integration testing, migration to Prod with CI/CD, performing sanity checks, documentation of code, SLA, Test coverage 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
- 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**                            **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

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