SANKET DATTAKUMAR DALVI

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EDUCATION

Rutgers University   *New Brunswick, NJ*
Master of Science in Computer Science | GPA 4.0 / 4.0   *Sep. 2022 – May 2024*

University of Mumbai   *Mumbai, India*
Bachelor of Engineering in Information Technology | GPA 8.39 / 10.0   *Aug. 2016 – Oct. 2020*

PROFESSIONAL EXPERIENCE

Data Engineering Intern   *June 2023 – Aug. 2023*
ThredUP   *Oakland, CA*

- Developed Python and Spark SQL multithreaded backup script for Data Lakehouse, allowing customizable schedules, auditing, and selective data exclusion; resulting in 30% performance gain over single-threaded approach.
- Pioneered and tested strategic roadmap for workspace migration to Databricks Unity Catalog, enhancing data governance.
- Leveraged Terraform to configure AWS S3 buckets, IAM roles, policies; improving data security and resource management.

Software Engineer   *Nov. 2020 – May 2022*
Xoriant   *Mumbai, India*

- Deputed in foundational team at Morgan Stanley, architected scalable microservices to facilitate Regulatory Reporting.
- Engineered reusable Typescript components, robust Java SpringBoot REST APIs, setting a framework adopted across teams.
- Built scalable Java pipeline for batch processing 500K records, with Integration and Unit test suite ensuring 95% coverage.
- Automated database tracking, object migration and applying schema changes for bank's largest project. Authored new and optimized existing SQL procedures, resulting in a 25% reduction in query execution time.
- Led service setup, Gradle build steps, and Jenkins CI/CD pipeline creation; optimizing efficiency and resource utilization.
- Collaborated with cross-functional teams in an Agile environment, gathering requirements to boost project throughput.

Software Intern   *June 2018 – July 2018*
Prako Technocratz   *Mumbai, India*

- Developed Python-Django examination portal, enabling teachers to launch timed tests and students to participate.
- Designed intuitive web pages for user signup and login, integrating robust user authentication and defining access rights.

PROJECTS

Electricity Billing Management System | *Java, Springboot, React, Kafka, Gradle, MySQL, Liquibase*

- Architected full-stack microservices application with a React.js dashboard for automating electricity billing tasks, including meter reading, bill generation, and customer management with analytics.
- Implemented Kafka event store and Java SpringBoot RESTful API calls for parallel processing and scalability, and utilized Spring Cloud Netflix for load balancing and improved response times.
- Designed MySQL schema, used Liquibase to track schema, migration; streamlining database development and deployment.

No ML Question Generator | *Apache Spark, Java*

- Architected Java-Spark application, generating unique, dataset specific questions using dynamic SQL.
- Innovated system capable of discerning categorical and numerical data types; refining precision and relevance of questions.
- Leveraged Spark SQL for performance optimization, ensuring rapid generation of high-quality questions from large datasets.

Plastic Waste Profiling | *Python, Tensorflow*

- Co-authored a Machine Learning application to identify plastic waste and its manufacturer from image, to create a location specific plastic waste profile, with 95% accuracy.
- Calibrated training parameters to categorize plastic waste and recognize duplicate images; increasing accuracy by 5%.

Bag Tracker | *Android Studio, Arduino IDE, CloudMQTT, Google Maps API*

- Built IOT project to track bag location in real-time using Arduino UNO, GSM shield, and GPS module on a custom Android app.
- Coded program for Arduino UNO to fetch live location of bag and push it to CloudMQTT server, achieved latency of less than 5 seconds on 2G data speed by reducing packet size.

TECHNICAL SKILLS

Languages: Java, Python, SQL, TypeScript, JavaScript, Shell script, C++, HTML, CSS

Databases: MySQL, PostgreSQL, IBM DB2, Greenplum, Databricks, MongoDB, Liquibase, JDBC

Frameworks & Build Tools: Spring, Springboot, Angular, React, Gradle, Node.js, Maven, Jenkins

Other Technologies: GIT, JIRA, Postman, AWS, Azure, Docker, Kafka, TensorFlow, AutoSys