SANKET DATTAKUMAR DALVI

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EDUCATION

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

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

WORK EXPERIENCE

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

- Developed multithreaded backup script in Python and Spark SQL for company's Data Lakehouse, with customizable backup schedules, backup auditing, and selective data exclusion; resulting in 30% performance boost over singlethreaded approach.
- Pioneered the strategic roadmap for workspace migration to Databricks Unity Catalog, unlocking the potential for unified access management, auditing, lineage, and data discovery capabilities across diverse workspaces.
- Leveraged Terraform to configure AWS S3 buckets, IAM roles, and policies, facilitating secure and controlled storage and access of managed table data, ensuring efficient resource management.

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

- Engineered scalable microservices in Java SpringBoot and Angular to aid users of a top investment bank in Regulatory Reporting.
- Created reusable Typescript components in Angular and built RESTful APIs with service logic using Java SpringBoot to facilitate seamless communication between different modules and systems within the bank.
- Built backend pipeline in Java for batch processing to action on up to 500K records and developed Integration and Unit test suite using JUnit and Mockito, ensuring a robust code coverage of 95% for new project.
- Automated database tracking, object migration, managing and applying schema changes for bank's largest project. Additionally, wrote new and optimized existing SQL procedures to improve database performance.
- Programmed deployment stages for project across all development environments, used Gradle to build projects, and authored CI/CD pipelines using Jenkins.
- Collaborated with cross-functional teams in Agile environment to gather requirements and boost throughput.

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

- Developed a Python-Django examination website that allows teachers to publish timed exams and student to take these exams.
- Designed web pages for user signup and login, integrated user authentication logic and defined access-rights for all roles.

PROJECTS

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

- Full-stack microservices application with React.js dashboard, designed to automate tasks involved in electricity billing, including meter reading, bill generation, and customer management with analytics.
- Implemented Kafka event store and Java SpringBoot RESTful API calls, enabling parallel processing and decoupled nature facilitating scalability.
- Utilized Spring Cloud Netflix for load balancing, distributing requests, improving response times and minimizing downtime.
- Designed and established relationships for the entire database schema using MySQL, while utilizing Liquibase for schema management and jOOQ for efficient data access, enhancing development and database operations within the project.

Plastic Waste Profiling | *Python, Tensorflow, XML*

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