Monisha Mohan

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Education

Northeastern University	**Expected May 2025**
*Master of Science in **Computer Software Engineering***	*Boston, MA*

Coursework: Application Engineering Development, Web Design/User Experience, Database Management & Design, Data Structures & Algorithms, Data Science, Object-Oriented Design, GenAI, Adv Big Data

Ramaiah Institute Of Technology	**June 2021**
Bachelor of Engineering in Electronics and Telecommunications	*Bangalore, Karnataka*

Technical Skills

Languages: Python, Java, SQL, JavaScript
Frameworks: React, NodeJS, ExpressJS, Redux, Flask, Spark, Kafka, Hadoop, Airflow, FastAPI, Spring Boot
Databases: MySQL, NoSQL, Redis, GraphQL, SQL Server, DynamoDB, PostgreSQL, OracleDB
Tools/Technologies: Git, REST API, Docker, Kubernetes, Snowflake, VS Code, MATLAB, Postman, Linux, PyCharm, IntelliJ, Eclipse, Jenkins, Power BI, Azure DevOps, UI/UX, Agile
Cloud Technologies: Microsoft Azure, AWS, GCP

Experience

Ernst and Young	**October 2021 - August 2023**
Data Engineer	*Bengaluru, India*

- Designed and implemented **CI/CD pipelines** to streamline data migration and testing processes
- Automated **ADF pipelines** for efficient data extraction, processing, and ingestion into destination tables (**SSMS**), improving efficiency by **80%**
- Developed **Databricks Notebooks** using **PySpark** and **SQL scripts** within **Synapse Analytics** for seamless data processing
- Optimized **data ingestion** with scheduled triggers and automation aligned with **SLAs** and created **test scripts** to validate data migration accuracy, reducing errors by **40%**
- Built **Power BI dashboards** to track and visualize **data refresh progress** for each sprint, enhancing monitoring and decision-making.

Wipro	**July 2021 - October 2021**
Data Engineer	*Bengaluru, India*

- Developed and optimized Oracle database solutions **using PL/SQL, Forms, and Reports, improving query execution time by 30% and enhancing system efficiency**
- Designed and maintained database workflows, implementing stored procedures, triggers, and performance tuning, **reducing report generation time by 40%** and streamlining **data processing for 100K+ records**

Projects

Trouvaille - Travel Website | *MERN Stack, HTML, CSS, JavaScript*　　　　Link | **December 2023**
- Developed a **full-stack travel web application** with review management, accomodations, booking, and blog features using MERN stack
- Designed and **optimized MongoDB database for efficient storage** and retrieval of travel-related data
- Built **responsive front-end interfaces** using React, HTML, CSS, and JavaScript, integrating REST APIs with Node.js and Express for seamless user interactions

Trading Platform | *Spring Boot, React, Tailwind CSS, MySQL, APIs*　　　　Link | **December 2024**
- Developed a trading platform with user authentication, cryptocurrency management, wallet operations, and trading features
- Integrated Spring Boot backend with MySQL, securing the application using **Spring Security, 2FA, & OTP verification**
- Built a **React-based front end** with Tailwind CSS, integrating CoinGecko, Gemini, Razorpay, and Stripe APIs for **real-time crypto data and payments**

Awards/Publication

- **Publication**: RFID Based Library Management System, IEEE Connect Conference　　Link
- **EY Appreciate**: Employee Spotlight of the year
- **Dean's Award**: Best Major Project of the year