

# Monisha Mohan

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## Education

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### 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

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**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

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### 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

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### 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

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- Publication:** RFID Based Library Management System, IEEE International Conference [Link](#)
- EY Appreciate:** Employee Spotlight of the year
- Dean's Award:** Best Major Project of the year