Mehul Bhandari

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EDUCATION

The LNM Institute of Information Technology (LNMIIT), Jaipur   Jaipur, Rajasthan
B.Tech in Computer and Communication Engineering   *July, 2023*

Ramjas School, R.K. Puram   New Delhi, Delhi
Class 12   *April, 2019*

WORK EXPERIENCE

Daimler Truck Innovation Center India   Bangalore, Karnataka
Software Engineer   August, 2023 − Present
- Developed backend services for optimizing vehicle routing of electric trucks using **Java (Spring Boot)**.
- Optimized time taken for asynchronous GraphQL requests by 80% using **Spring WebFlux's WebClient**, reducing the runtime of the algorithm by 50%.
- Utilized **PostgreSQL** data storage and implemented an API for easy download of results to aid in debugging.
- Integrated **Azure Event Hubs** with event listeners to process and stream live vehicle data in real time.
- Designed and implemented a **Server-Sent Events** architecture for streaming live vehicle location in the navigation system.
- Built and managed **admin dashboards** to support debugging and improve collaboration among developers.
- Implemented **OAuth2 token-based authentication**.
- Deployed the application on **Linux-based VMs**, leveraging **Nginx** and **Tomcat** to handle requests across multiple microservices.
- Tech Stack: **Java, Spring Boot, Hibernate, Spring WebFlux, WebClient, GraphQL, Azure, Git, PostgreSQL**

YugabyteDB   Bangalore, Karnataka
Software Development Engineer in Test- Intern   Jan, 2023 − July, 2023
- Automated UI tests using **Cypress and TypeScript**.
- Developed integration tests for **YugabyteDB** and the **Yugabyte Anywhere Platform** using Python.
- **On-call QA duties:** Ran automation, triaged issues, and qualified and signed off on major releases.
- Increased UI test automation coverage by 5%.
- Created test plans, wrote tests for Backup and Restore, Encryption, Point-in-Time Recovery, and Runtime Flags.
- Tech Stack: **TypeScript, Cypress, Jenkins, Git, Python, JIRA**

PROJECT WORK

Real Time Chat Rooms   April, 2022 − June, 2022
- The app uses **Socket.io** to manage real-time connections to the **Node.js** server.
- Users can send and receive real-time chat messages to all clients connected to the same server.
- Supports chat rooms, where messages are sent only to users connected to a specific chat room.
- Tech Stack: **Node.js, Express.js, Socket.io, HTML, EJS, JavaScript, CSS**

Micro Blogging Website   Decemeber, 2021 − March, 2022
- A platform that allows users to post microblogs on their feed.
- Serves data to the frontend through API calls.
- User records are stored in a **MySQL** database, using **Sequelize ORM** for database management.
- Tech Stack: **Node.js, MySQL, Sequelize, HTML, Express.js, JavaScript, Bootstrap**

ACHIEVEMENTS

Best Internal Publication   December, 2024
- Received the Best Internal Publication Award for presenting a **technical paper** at the Technical Confluence on the design of the navigation proof of concept (POC) and performance improvements in Optimal Vehicle Routing for electric trucks.

Product Innovation Award   March, 2024
- Received the annual **Product Innovation Award** for contributions to optimal routing for electric trucks.

Rewards and Recognitions
- Featured twice in YugabyteDB biweekly all-hands, where individuals are called out for their **exceptional work**.

EXTRACURRICULAR

Media Cell, LNMIIT
President   May, 2021 − May, 2022
- Led the official Media coverage and PR body of LNMIIT.
- Worked with a team of individuals in Media coverage, content writing, graphic design, sponsorship and public speaking.