Mohit Soni

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EDUCATION

GL Bajaj Group of Institutions, Mathura, U.P. **2021 - 2025**
BTech - Computer Science and Engineering - ***CGPA - 7+*** *Mathura, U.P.*

- Data Structure and Algorithms (DSA)
- Database Management System (DBMS)
- Operating Systems
- Oops Concepts
- C++

EXPERIENCE

SDE Intern at Desi QnA **July 2023 - Nov 2023**

- Worked on the Design and Development part of fully respon- sive webpage for a particular section of Desi QnA.
- Worked on User Verification/Authentication + Engineering challenges of detecting and removing the fake bots and posts.
- Integrated Recaptcha with website - Google Layer of Protec- tion for websites.
- Tech Stacks : HTML5 , CSS3, JS , TailwindCSS , Reactjs, Node.js , PostgresQL.

PROJECTS

Food WebApp | Github | JavaScript — React — Redux — Jest **2023**

- Leveraging Swiggy's API for real-time restaurant data and menu information ensures that users have access to up-to-date information on available restaurants and their menus.
- Enabled dynamic filtering and sorting based on Top-Rated Restaurants
- Conducted comprehensive unit and integration testing using Jest to ensure the reliability and functionality of the application

Scaleable Realtime Chat | Github | Next.JS — Node — Sockets — Redis — Kafka — PostgreSQL **2025**

- Built a scalable architecture using WebSockets, Redis Pub/Sub, and Kafka, ensuring reliable and low-latency communication in **distributed environments**.
- Designed and implemented a distributed real-time chat application capable of handling high-concurrency communication across multiple servers.
- Developed a modular monorepo with Turborepo to streamline interdependent frontend and backend development.
- Utilized Redis as a real-time message broker to overcome WebSocket's limitations on distributed servers, **enabling seamless server-to-server communication**.

Notification System | Github | Nodejs — Express — Redis — Kafka — Typescript — PostgreSQL **2025**

- **Dynamic Consumer Scaling:** Implemented Kafka consumer auto-scaling with partition rebalancing, ensuring consistent throughput and zero lag under high load.
- **Failure Recovery and Dead Letter Queue:** Designed an adaptive retry mechanism with exponential backoff, using Redis for transient failures and Kafka DLQ for non-retryable errors.
- **Achieved 99.99% uptime** with *auto-healing consumers* and *failover handling*.
- Developed a dynamic routing engine that prioritizes delivery based on user preferences.

TECHNICAL SKILLS

Languages: C, C++, JavaScript
Technologies/Frameworks: HTML5, CSS3, JavaScript, React, Nextjs, Tanstack Query, Typescript, Node, Express, Zustand, BullMQ, MaterialUI, MongoDB, PostgresQL, RESTApi, RabbitMQ, GraphQL, PrismaORM, Redis, WebSockets, Webhooks, Kafka, Docker, Linux
Developer Tools: VS Code, Postman, Git and Github, Hoppscotch
Cloud Platform: AWS