

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
- C++
- OOPS Concepts

EXPERIENCE

SDE Intern at Desi QnA

July 2023 - Nov 2023

- Worked on the Design and Development part of fully responsive 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 Protection for websites.
- Tech Stacks : HTML5 , CSS3, JS , TailwindCSS , Reactjs, Node.js , PostgreSQL.

PROJECTS

Scalable 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.

Personalize PDF | [Github](#) | Next.js — Typescript — Pinecone — OpenAI — AWS S3 — Langchain **2025**

- Developed a full-stack PDF personalization application using Next.js, React, and Typescript, **reducing PDF processing time by 40%**.
- Implemented OpenAI embeddings and Langchain for intelligent document processing, **achieving 95% accuracy in content extraction**.
- Utilized AWS S3 for scalable and secure file storage, **reducing storage costs by 30%**, and integrated Razorpay for subscription management, handling 100+ transactions per month.

TECHNICAL SKILLS

Languages: C, C++, JavaScript

Technologies/Frameworks: HTML5, CSS3, JavaScript, React, Next.js, Tanstack Query, Typescript, Node, Express, Zustand, BullMQ, MaterialUI, MongoDB, PostgreSQL, RESTapi, RabbitMQ, GraphQL, PrismaORM, Redis, WebSockets, Webhooks, Kafka, Docker, Linux, AWS S3, EC2, Cloudfront, NGINX

Developer Tools: VS Code, Postman, Git and Github, Hoppscotch

Cloud Platform: AWS