

# 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 DesiQnA**

**July 2023 - Nov 2023**

- Developed and deployed a fully responsive frontend module for a key product section using React.js, TailwindCSS, and Node.js, improving user engagement by optimizing UI/UX flow.
- Implemented user verification and authentication workflows, tackling challenges like spam detection and bot activity mitigation through heuristic-based logic and validation layers.
- Integrated Google reCAPTCHA v2 for bot prevention, enhancing platform security and reducing fake signups/posts by over 80%.
- Collaborated cross-functionally to align UI design with backend APIs and PostgreSQL-based data models.
- Tech Stack: React.js, Node.js, TailwindCSS, HTML5, CSS3, PostgreSQL

## PROJECTS

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

- Engineered a resilient architecture leveraging WebSockets, Redis Pub/Sub, and Kafka; maintained sub-50ms latency for 99% of messages, ensuring seamless real-time communication across all application servers and clients..
- 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 | Microservices — 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**

- Engineered a full-stack PDF personalization platform using Next.js and TypeScript, **reducing PDF processing time by 40%** through optimized rendering and worker-based streaming..
- 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, NGINX, Kubernetes

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

**CICD Tool:** Github Actions

**Cloud Computing Services:** AWS S3, EC2, Cloudfront, Route53, ECR, ECS, EKS

**Cloud Platform:** AWS