

# RITIK CHOURASIYA

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## EXPERIENCE

### Associate Software Engineer | Docfliq Pvt Ltd | July 2023 - Present

- Boosted server throughput by 200% (5k → 15k RPS) and slashed response times by 93% (3s → 200ms) by implementing Node.js clustering, NGINX load balancing, and Redis caching, ensuring high concurrency support for live streaming.
- Optimized database queries, cutting query response time by 40%, and hardened authentication mechanisms, reducing security vulnerabilities by 30%.
- Conducted load testing with JMeter (10,000+ concurrent users), validating system stability and confirming 93% faster response times under peak traffic.
- Increased reliability by implementing unit tests (45% coverage) using Mocha & Chai, improving maintainability and reducing production issues.

### Software Engineer Intern | Docfliq Pvt Ltd | Oct 2021 - June 2023

- Designed and developed an intuitive CMS dashboard with analytics using MERN stack (MongoDB, Express, React, Node.js), reducing content creation time by 50% and improving content consistency.
- Increased platform engagement by 35% by implementing real-time notifications using WebSockets, enhancing user interaction and retention.
- Deployed an IP-based rate-limiting system to prevent DDoS attacks, improving API uptime by 10 % and reducing malicious traffic.
- Optimized database indexing and query performance, reducing average response time by 30% under high load.

## TECHNICAL SKILLS

**Languages:** JavaScript | TypeScript | ReactJs | NodeJs | ExpressJs | PHP | Python | Golang | C++ | Laravel

**Databases:** MongoDB | PostgreSQL | MySQL | Redis | Mongoose | Sequelize

**Cloud and Devops:** AWS (EC2, S3) | Docker Containerization | CI/CD Pipelines | Jenkins | Linux, NGINX | PM2

**Testing and QA:** Mocha | Chai | Jest | Jmeter | Postman

**Others tools and technologies:** RESTful APIs | WebSockets | Load Balancing | JWT | Tailwind CSS | GIT | GitHub

## EDUCATION

**University Institute of Technology, RGTU**, Bachelor of Technology in Information Technology, Bhopal, India | June 2023

## PROJECTS

### Pollsage | Full-Stack Live Polling Application | [Link](#)

- Developed a full-stack polling app using React.js, Node.js & MongoDB, featuring survey creation, voting & real-time analytics with dynamic visualizations for multiple question types (MCQ, ratings, open-ended).
- Ensured security (JWT/OAuth) & scalability via cloud storage, while optimizing performance through RESTful APIs & efficient database queries for enhanced responsiveness.
- **Tech Stacks:** Node.js, Express, React, MongoDB, WebSockets, NGINX, AWS