

RITIK CHOURASIYA

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EXPERIENCE

Associate Software Engineer | Docfliq Pvt Ltd

July 2023 - Present

- Developed Docfliq's healthcare education platform from scratch using React.js/Tailwind CSS frontend and Node.js/Express.js backend, enabling Live streaming and VOD training for 10,000+ medical professionals with <200ms latency
- 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.
- Enhanced database performance by implementing MongoDB indexing, refining aggregation pipelines, and integrating Redis caching, leading to a 40% reduction in average query response times.
- Improved system reliability by implementing unit tests with Mocha and Chai, achieving 45% test coverage, resulting in a 15% reduction in system downtime and faster time-to-market for new features, enhancing overall 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, which led to a 20% increase in user retention.
- Deployed an IP-based rate-limiting system to prevent DDoS attacks, improving API uptime by 10 % and reducing malicious traffic.
- Improved database indexing and optimized query performance, achieving a 30% reduction in average response time under high load, which contributed to better system responsiveness and an enhanced user experience.

PROJECTS

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

- Built a full-stack polling platform using React.js, Node.js & MongoDB and WebSocket, supporting 500+ concurrent users with <300ms latency for live vote updates and interactive visualizations for multiple question types (MCQs, ratings, open-ended).
- Implemented scalable authentication using JWT to ensure secure access control for both anonymous and registered users across the platform.
- Enabled anonymous participation without compromising vote integrity by implementing device fingerprinting and IP-based rate-limiting to prevent duplicate votes.
- Optimized RESTful API endpoints by implementing MongoDB query indexing, aggregation pipelines, and pagination to minimize query execution time, reduce server response latency and improve system scalability and overall performance.

SKILLS

Frontend: React.js, Tailwind CSS, JavaScript, TypeScript

Backend: Node.js, Express.js, WebSockets, PHP, Laravel, Python, RESTful APIs

Databases: MongoDB, PostgreSQL, MySQL, Redis

DevOps & Cloud: AWS (EC2, S3), Docker, Jenkins, NGINX, Linux, PM2

Testing: Jest, Mocha, Chai, Postman, Jmeter

EDUCATION

University Institute of Technology, RGTU

June 2023

Bachelor's of Technology in Information Technology, Bhopal, India