

RITIK CHOURASIYA

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PROFESSIONAL EXPERIENCE

Docfliq - Associate Software Engineer

July 2023– Present

- Optimized server performance and concurrency by implementing Node.js clustering, NGINX load balancing, and Redis caching to **increase throughput by 200%** (from 5k to 15k) and **reduce response time by 93%** (from 3 seconds to 200ms), resulting in enhanced reliability and scalability, especially for handling high concurrency during live streaming.
- Implemented a comprehensive suite of **unit tests covering ~45%** of the codebase, significantly improving **code quality and reliability**. Utilized **Jest and React Testing Library** to ensure thorough testing of React components and application functionality.
- Streamline content creation and management by developing an **intuitive CMS dashboard with advanced analytics** using the MERN stack. This innovation led to a **50% reduction in content creation time** and significantly improved content consistency and management efficiency.
- Implemented Playwright for UI automation testing** and integrated it into a **Jenkins CI/CD pipeline**, achieving approximately **70% test coverage** for the user interface. This led to a **50% reduction in manual testing time**, significantly enhancing overall testing efficiency and software quality.

Docfliq - Software Engineer Intern

Jan 2023 – June 2023

- Improved system responsiveness by achieving a **25% increase in data retrieval speed** through **redesigning the MongoDB database schema** and **performing indexing** where needed, significantly boosting overall platform efficiency.
- Designed and implemented a daily production database backup pipeline**, automating backups and storing them in cloud storage. This solution ensured **daily data protection**, reducing data loss risk by **90%** and improving recovery time, which enhanced overall system reliability and minimized potential downtime.
- Increased platform engagement by 30%** through the implementation of a **real-time question and answer capability** during live events. Leveraged **WebSockets technology** to enhance user interaction and deliver a more dynamic and engaging experience.
- Enhanced service reliability by designing and implementing an advanced **IP-based rate-limiting system using Redis**. This proactive approach effectively mitigated **DDoS attacks and reduced server load by 40%**, fortifying the platform's stability and ensuring continuous service availability.

PROJECTS

CARRIER JS (Javascript Library) | [Official Documentation](#) | [Github](#) | [NPM](#) | 2.2k+ downloads

August 2022– Present

- Led the development of Carrier JS, utilizing in-browser caching with IndexedDB and custom XHR for API calls to accelerate data retrieval, minimize latency, and significantly enhance overall user experience..

HEADX (NPM Package) | [Official Documentation](#) | [Github](#) | [NPM](#) | 1.4k+ downloads

August 2022– Present

- Designed and launched Headx, a React package that streamlines SEO management by automating meta tag integration, resulting in improved search engine visibility and a more optimized user experience across web pages.

EDUCATION

University Institute of Technology, RGTU | Bachelor of Technology (B. Tech) | Bhopal, India

June 2023

SKILLS & INTERESTS

Proficient: TypeScript | JavaScript | Node JS | Express JS | React JS | MERN Stack | MEVN Stack | MongoDB

Intermediate: Go lang | Python | Redux | Docker | Linux | Git | GitHub | Jenkins | Websocket | Redis | PostgreSQL | NGINX

Familiar: Jest| React Testing Library| Restful API Design | Fullstack Development | Declarative Jenkins Pipeline