RITIK CHOURASIYA

Proven expertise in developing robust backend APIs and designing intuitive CMS Dashboards using the MERN (MongoDB, Express, React, Node.js) stack. A dedicated software engineer with a strong commitment to staying abreast of the latest advancements in backend development and technologies.

Bhopal, India

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EXPERIENCE

Docfliq, Remote— 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.
- Conducted **load testing using JMeter** to simulate **10,000 concurrent users and measure response times** under heavy load to identify potential bottlenecks and validate system performance improvements, resulting in confirmation of a **93% reduction in response time** and ensuring the system's ability to handle peak traffic during live streaming events.
- Optimized **database queries**, achieving a 40% reduction in response time, and strengthened user authentication mechanisms leading to a 30% reduction in security vulnerabilities
- Implemented a robust suite of unit tests covering ~45% of the codebase, thus significantly enhancing code quality and reliability using Mocha & Chai

Docfliq, Remote— Software Engineer Intern

Jan 2023 - June 2023

- Design and developed an intuitive CMS Dashboard with Analytics using the **MERN (MongoDB, Express, React, Node.js)** stack, reducing in a 50% reduction in content creation time and improved content consistency.
- Successfully elevated platform engagement by implementing a highly anticipated feature using WebSockets technology. This solution significantly improved user interaction.
- Contributed to the deployment of an advanced IP-based rate limiting system, safeguarding service reliability by mitigating potential DDoS attacks.

EDUCATION

University Institute of Technology, RGTU, Bhopal June 2023

SKILL

Proficient: TypeScript | JavaScript | Node JS | Express JS | React JS | MongoDB

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

Familiar: Mocha | Chai | Declarative Jenkins Pipeline

PROJECT

CarrierJS — *Javascript Library*

- Led Carrier JS development, leveraging in-memory caching via IndexedDB for a 30% boost in data retrieval speed, enhancing website experience.
- This innovation garnered 15 GitHub stars and 19 forks, attesting to its recognition within the developer community and open-source collaboration.
- Documentation | Github | 2.2k+ downloads

HEADX — *NPM Package*

- Innovated and launched Headx, a **React package for seamless SEO management**, boosting search engine visibility by integrating meta tags across web pages. **Achieved 1.4k+** downloads with comprehensive documentation and GitHub support.
- Documentation | Github