

# Ritik Kumar

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## Technical Skills

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**Programming languages:** C + +, Java, JavaScript, Python, SQL, PHP

**web Technologies:** HTML5, CSS3, javascript, Reat, Tailwind css, Redux, Express.js, MongoDB

**Tool:** VS Code, Git, Github pages, vercel

**Skills:** Data Structures and Algorithms, Problem-Solving, Responsive Web Design

## Projects

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### URL Shortener

- **URL Shortening:** Easily shorten long URLs with custom expiration times and bulk link creation for large-scale businesses.
- **QR Code Generation:** Automatically generate QR codes for URLs to simplify sharing both online and offline.
- **Scalable:** Efficiently handle large-scale data with MongoDB sharding and process millions of requests using Redis caching.
- **Modern UI:** Built with React for a clean, responsive, and intuitive user interface across all devices.
- **CI/CD Ready:** Pre-configured CI/CD pipelines for seamless integration, testing, and deployment.

### API Proxy Server – Hide API Keys, Rate Limiting, and Caching

- **API Key Security:** Implemented a proxy server to securely handle API keys, hiding them from the frontend and preventing exposure in client-side code.
- **Rate Limiting:** Integrated rate limiting to control user requests and prevent abuse of the external API.
- **Caching:** Used Redis for caching frequently requested data, improving response time and reducing external API calls.
- **Scalable Proxy Design:** Created a scalable middleman server to manage requests between the client and external APIs, ensuring performance and security.

## Education

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Lovely Professional University, B.Tech. in Computer Science

July 2022 – July 2026

- GPA: 8.16/10

Gurukul vidyapeeth school , XII

July 2021 – 2022

- Grade: 74.8 percent

## Certifications

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Introduction to Generative AI Link

Jan 2024 - feb 2024

Generative AI with Large Language Models Link

Jan 2024 - feb 2024

Introduction to Large Language Models Link

Jan 2024 - feb 2024

Prompt Engineering for ChatGPT Link

feb 2024 – mar 2024

## Achievements

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- **Proficient in Problem-Solving:** Demonstrated strong analytical and algorithmic thinking skills, solving more than 100+ coding problems on platforms like LeetCode, Codeforces and HackerRank.
- **Hackathon Winner:** Secured first place in two hackathons, showcasing innovative thinking, teamwork, and the ability to develop impactful solutions under tight deadlines.
- **Leadership and Teamwork:** Led a team of 4 during hackathons to develop end-to-end solutions, effectively managing tasks and ensuring timely delivery.