

SHUBHAM KUMAR

Indore, India

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EDUCATION

Jabalpur Engineering College

B.Tech in Electronics and Communication Engineering (CGPA: 7.01)

2023 – 2027

Jabalpur, India

R.N College, Hajipur (Class XII)

Aggregate: 79.6%

2022

KCI, Rajapakar (Class X)

Aggregate: 86.4%

2020

TECHNICAL SKILLS

Programming Languages: Java, JavaScript

Backend: Spring Framework, Spring Boot, Hibernate, API Development, Express.js, Microservices Architecture

Frontend & Frameworks: HTML, Tailwind CSS, React.js, Node.js, Redux

Databases: DBMS, MySQL, PostgreSQL, MongoDB

Core CS Concepts: Object Oriented Programming, Computer Networks, Data Structure Algorithm(Java)

DevOps & Tools: Git, Postman, VS Code, Docker, Github Copilot, Claude

PROJECTS


Linkly – URL Shortener | *Spring Boot, Spring Security, JWT, Spring Data JPA, MySQL, React, Chart.js* |

- Built a full-stack URL shortener supporting **100+ URL generations/day** with secure link generation and seamless redirection.
- Developed RESTful APIs for link creation, redirection, and analytics tracking.
- Implemented **Base62 encoding** for generating short, unique, and collision-resistant URLs.
- Designed normalized MySQL schema for users, URLs, and click analytics.
- Created an interactive analytics dashboard using Chart.js for click insights.
- Optimized frontend data handling using React Query for efficient caching and state management.


Hotel Rating System (Microservices) | *Java, Spring Boot, Spring Cloud, Eureka, API Gateway, Resilience4j*

- Developed a **microservices-based system** with separate **User, Hotel, and Rating services** for scalable architecture.
- Implemented **service discovery (Eureka)** and centralized routing using **API Gateway**.
- Built **RESTful APIs** with layered architecture for efficient data handling.
- Enabled **inter-service communication** using Feign Client/RestTemplate for data aggregation.
- Integrated **Resilience4j Circuit Breaker** for fault tolerance and improved reliability.
- Designed **independent databases** (MySQL, MongoDB) ensuring loose coupling and scalability.

Social Media Post Application | *React.js, Node.js, Express.js, MongoDB, JWT, Cloudinary* |

- Built a full-stack social media platform enabling post creation, likes, and comments in a dynamic feed.
- Implemented secure **JWT-based authentication and authorization** with protected routes.
- Designed and developed **RESTful APIs** for post management, user interactions, and data handling.
- Integrated **Cloudinary CDN** for scalable image upload, storage, and optimized media delivery.
- Designed **scalable MongoDB schema** for users, posts, and engagement data.
- Deployed application using **Vercel (frontend)** and **Render (backend)** with MongoDB Atlas.
- Planned enhancements include **real-time chat using WebSockets**  and **short-form video** using adaptive streaming (HLS/CDN).

ACHIEVEMENTS & ACTIVITIES

- Solved **200+ Data Structures & Algorithms** problems on **Take U Forward (Striver)** , strengthening problem-solving skills.
- Selected as **College Finalist** for **Smart India Hackathon (SIH) 2024**; also participated in **LNMHacks 8.0**.
- Selected as Campus Ambassador for **Physics Wallah (PW)**, **E-Cell IIT Bombay**, and **TUF (Striver)** 