

ABHAY KUMAR

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Education

Madan Mohan Malviya University of Technology

Bachelor of Technology in Computer Science and Engineering (current CGPA : 8.48)

2023 – 2027

Gorakhpur, Uttar Pradesh

Projects

Train Tracker Website | JavaScript, NodeJS, React, Express

March 2025

Project Link: [Live Demo](#) | [GitHub Repository](#)

- Live Train Running Status: Implemented real-time train tracking by integrating live location APIs for accurate updates on train movement.
- PNR Status (Under Development): Simulated PNR status checking feature using dummy data, designed to demonstrate backend and frontend data flow in the absence of live APIs.
- Coach Layout (Under Development): Created a mock interface to display coach seating arrangements using sample data, laying the groundwork for full integration once APIs are available.
- User Interaction – Feedback Form: Developed a Contact Us form to collect user feedback and suggestions directly through the website.

Authentication through OTP Verification | JavaScript, NodeJS, React, MongoDB

December 2024

Project Link: [Live Demo](#) | [GitHub Repository](#)

- Signup Flow: Implemented a fully responsive signup system with email OTP verification using Node-mailer and route protection.
- Login Flow: Developed a secure login system with route protection and dashboard access for authenticated users.
- Forgot Password Flow: Built a password recovery system with reset link functionality and secure credential update.
- Contact Us Flow: Created a responsive contact form to collect user feedback and send messages via backend integration.

URL Shortner Website | JavaScript, EJS, NodeJS, MongoDB

August 2024

Project Link: [GitHub Repository](#)

- **Authentication Flow:** Secured API endpoints using JWT to ensure only authenticated users can access protected routes.
- **URL Shortening Flow:** Generated unique short URLs using short-id and stored them with original links in MongoDB.
- **Analytics Flow:** Tracked click events and provided visit history with total click counts for each shortened URL.
- **Rendering Flow:** Dynamically rendered all created short URLs on the frontend using a templating engine for real-time updates.

Technical Skills

Languages: C, C++, HTML, CSS, JavaScript, Python

Data Structures and Algorithms: Proficient in implementing and optimizing data structures and algorithms using C++

Runtime / Platform: Node.js

Frameworks / Libraries: React, Express

Databases: MongoDB, MySQL

Achievements

- Secured 2nd Rank in a **GitHub** event – [Link](#)
- Secured a Top 10 Rank in a Capture The Flag (CTF) competition at the college level.
- **CodeChef:** ★★ (Max Rating: 1505) – [Profile](#)
- **LeetCode:** Solved 250+ problems – [Profile](#)
- **Codeforces:** Newbie (Max Rating: 1002) – [Profile](#)
- Successfully qualified **JEE Mains** multiple times.
- Won several college-level competitions in coding, technical events, and hackathons.

Extracurricular

- Won multiple college-level Chess competitions organized under the Robomania and Techsrijan.
- Winner of Debate Competitions at both college and school levels.
- Chess.com Profile – [Link](#)