Randhir Kumar Raj

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Summary

Prefinal-year B.Tech AIML student at BIT Mesra skilled in Data Structures & Algorithms, and full-stack MERN development. Built scalable applications with secure APIs, authentication, dashboards, and cloud integrations. Achieved top global rankings in Codeforces and LeetCode contests with 950+ problems solved. Focused on building reliable, scalable, and user-centric software systems.

Skills

- **Programming Languages :** C, C++, JavaScript, Python(Basics).
- **Web Development :** React.js, Express.js, Node.js, JWT, TailwindCSS, Redux, HTML, CSS.
- **Computer Fundamentals :** Data Structures & Algorithms, DBMS, OOPS, Operating Systems, Computer Networks.
- **Databases & Tools :** SQL, MongoDB, Git, GitHub, Postman, VS Code.

Education

- **Birla Institute of Technology, Mesra**   Aug 2023 - July 2027
  Bachelor of Technology (AIML)   **CGPA : 8.1**

Projects

RAAH (Redressal System) | *Node.js, Express.js, MongoDB, React.js, TailwindCSS, Cloudinary*   GitHub | Link
- Established a streamlined grievance communication flow that linked the status of each case to an automated email system; **increased transparency** for over many team members, leading to enhanced collaboration and faster resolutions.
- Developed "RAAH" – a full-stack MERN grievance redressal system with multi-role access (**Citizen, Nodal Officer, DM**), featuring real-time updates, secure **JWT authentication**, and email-based notifications. Enabled seamless user onboarding, live grievance status flow, and timely communication via integrated email system.
- Built interactive dashboards with **role-specific** analytics using React, Redux, and Recharts; implemented **RESTful APIs** with Node.js, Express, MongoDB, and integrated Cloudinary for secure media uploads.

StudyPlanet | *MongoDB, Express.js, React.js, Node.js, TailwindCSS, Cloudinary*   GitHub | Link
- Engineered a scalable full-stack platform (StudyPlanet) with MongoDB, Express.js, React.js, and Node.js, implementing **RESTful APIs** for user management, course enrollment, and dynamic content delivery with optimized performance and error handling.
- Secured the application using **JWT-based** authentication and role-based access control **(RBAC)**, ena- bling protected routes for students and instructors, and integrated Cloudinary API for real-time media upload and retrieval.

Ecomzy Platform | *React.js, Javascript, Redux, TailwindCSS*   GitHub | Link
- Built a modern, responsive e-commerce platform with dynamic product listings, shopping cart functionality, and seamless navigation using **React.js** and **TailwindCSS** for optimal UI/UX across devices.
- Integrated **Redux** for centralized state management to handle cart operations, user sessions, and UI state transitions, ensuring smooth and scalable application performance.

Achievements

- Achieved a peak **LeetCode rating of 1571 & CodeForces rating of 1329 (Pupil),** demonstrating strong analytical and problem-solving skills through regular participation in contests. LeetCode Profile | CodeForces Profile
- Achieved **Top 5** finish in **BIT-NISHAN'24** Plan-B Entrepreneurship Competition; demonstrated skills in idea validation, teamwork, problem-solving, pitching, and entrepreneurial thinking.
- **Qualified the Super 30 entrance examination**, conducted by Anand Kumar's institute in Patna, recognized for selecting top-performing students for IIT-JEE preparation.
- **Solved over 950+** DSA problems across LeetCode, CodeForces, and CodeChef focusing on algorithms and data structures.
- Ranked 445 among 28,000+ global participants in a Codeforces Round 1080 (Div. 3) contest.
- Ranked 1225 among 32,000+ global participants in a Leetcode Biweekly contest 160.