Manan Malik

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Education

Thapar Institute of Engineering and Technology, Patiala

Bachelor of Engineering in Electronics and Computer, Current CGPA: 8.51 — Sep 2022 – Present

Montfort School, Roorkee
Scored 89.8% in 12th standard and 91.5% in 10th standard.

Experience and Leadership Roles

Backend Web Developer, Thapar Venture Lab — 2024 – Present
- Developing and optimizing the backend architecture to streamline the startup incubation application process.
- Implementing secure authentication, efficient data management, and workflow automation using **Node.js, Express.js, and MongoDB**.

Executive Member, MLSC TIET — 2022 – 2024

- Led publicity, content creation, and event management initiatives for **Makeathon**, the flagship hackathon with 1500+ participants across India.
- Facilitated cross-team collaboration to ensure a seamless event experience, fostering innovation among participants.

Projects

CampusRide — *Node.js, React, Google Maps API, Express.js* — Jan 2025

- Engineered a real-time ride-hailing platform for campus students to efficiently book e-rickshaws, improving campus mobility.
- Integrated **Google Maps API** for real-time location tracking, optimized route planning, and accurate fare estimation.
- Enhanced real-time communication between students and e-rickshaw drivers, reducing average wait times by **30%**.

DevTinder — *MongoDB, Express.js, React.js, Node.js* — Feb 2024

- Developed a **developer networking platform** that connects programmers based on skills, interests, and collaboration needs.
- Designed a **React-based frontend** with Tailwind CSS, ensuring a modern, responsive, and user-friendly interface.
- Secured user authentication with **JWT-based authentication and role-based access control**, safeguarding user data.

Movie App — *React, Redux, Tailwind CSS, Context API* — Sep 2023

- Developed an interactive movie browsing platform replicating key IMDB features using **React (Vite)** for enhanced performance.
- Integrated **Redux** for state management, ensuring seamless content updates and navigation.
- Styled the application using **Tailwind CSS**, delivering a sleek and intuitive user interface.
- Implemented **TMDB API** to dynamically fetch and display **real-time data on 50,000+ movies and TV shows** with a **98% API response accuracy**.
- Optimized search and filtering algorithms, boosting search result relevancy by **25%** and enhancing the user experience.

Technical Skills

Programming and Development: C, C++, Java, JavaScript, HTML, CSS
Backend Technologies: Node.js, Express.js, MongoDB, MySQL
Frontend Technologies: React.js, Redux, Tailwind CSS
Developer Tools: Git/GitHub, VS Code, Figma
Soft Skills: Strong communication, teamwork, leadership, analytical thinking