Varun Mishra
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Registration No: 21113184/2025

Indian Institute of
Technology
Roorkee

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
4th	4th Year	Indian Institute of Technology, Roorkee	7.880
2021	Intermediate (Class XII)	Angels Abode Public School	93.80 %
2019	Matriculate (Class X)	Pushpa English Medium School	93.60 %

Experience

Software Engineer | Noor Rides   July 2025 - Present

- Integrated **VROOM** and **OSRM** in backend for Rides scheduling ,routing and allotment leading to significant decrease in dead kms.
- Enhanced and customized an existing **AdminJS platform** to streamline data workflows and optimize resource configurations.
- Implemented high-performance **FastAPI (Uvicorn)** APIs for efficient data retrieval, allocation management, and real-time updates
- Delivered a React-based **Overtime Slot Management** Dashboard for seamless allocation and monitoring of driver shifts.

Internships

MERN Developer Intern | Department of Civil Engineering , IIT Roorkee   May 2024 - July 2024
- Engineered a web app for Satellite Imagery and Earth Data Analytics, delivering a seamless user experience.
- Integrated Leaflet for advanced polygon maps, backend metadata storage, and efficient TIFF download support.
- Utilized RESTful APIs from Planet Labs for comprehensive metadata retrieval and high-resolution image downloads.

Full Stack Development Intern | GoBlu-EV   November 2023 - January 2024
- Collaborated with a cross functional team as a MERN intern to develop a driver management and database platform.
- Designed and implemented RESTful APIs with Node.js and Express, leveraging MongoDB for data storage.
- Optimized API performance, secured data with authentication, and contributed to front end integration.

Projects

Path Planning | Models and Robotics Section,IIT Roorkee   March 2023 - April 2023
- Constructed an efficient data structure for search space, ensuring optimal pathfinding on satellite data.
- Integrated A* and Dijkstra algorithms for shortest-path planning between points.
- Developed an interactive GUI using Python (PyGame) for algorithm visualization and user interaction.

Random Number Generator | Physics and Astronomy Club , PaAC   November 2023 - December 2023
- Developed a custom random number generator, ensuring statistically robust and unbiased sequences.
- Applied statistical tests such as frequency, chi-square, permutation, and auto-correlation to assess randomness quality.
- Utilized Python libraries like scipy, numpy, and random for design, testing, and analysis.
- Validated and optimized the generators output to minimize patterns and enhance unpredictability.

Custom Hotel Booking and Management Platform | Self Project   November 2023 - January 2024
- Built a full stack hotel booking application using the MERN stack, featuring a secure and scalable architecture.
- Implemented JWT based authentication to ensure data security and user access control.
- Designed dynamic search functionality for filtering hotels based on user preferences.
- Built a system with real time availability tracking and payment gateway integration for seamless transactions.

Bhoomicam Website Frontend Development | Bhoomicam, IIT Roorkee   February 2024 - March 2024
- Designed responsive web pages using React, delivering seamless UI/UX across various devices and screen sizes.
- Implemented a component based architecture, creating reusable and modular UI elements
- Collaborated effectively with team members to integrate dynamic features and refine the overall user experience.

Awards / Scholarships / Academic Achievements

- All India Rank 6204 in Jee Advanced 2021 out of 0.25 million candidates.
- All India Rank 8533 in Jee Main 2021 out of 1 million candidates.
- Codeforces Best Global Rank - 769 (Codeforces Round #841)

Skills

Computer languages   C++ ,Python ,HTML ,CSS ,Javascript ,SQl
Software Packages   React,Node,Express ,Mongo,Git,Uvicorn,FastApi

Positions of Responsibility & Extra Curriculars

Competitive Programmer | Codeforces
- Active Member on various online judges like Codeforces and AtCoder.
- Codeforces Handle: dunkin_shepherd (Max Rating : 1559) .

Manager| Civil Conclave ,IIT Roorkee
- Managed the delegation vertical for the Civil Conclave.