Deepanshu Rai

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Education

IIT DHANBAD Expected May 2025
Bachelor of Science in Mining Machinery Engineering (GPA: 7.31 / 10.00) *Dhanbad, Jharkhand*
- **Relevant Coursework:** Computer Programming (C)

Projects

EmberStride | *HTML, CSS, JavaScript, Node.js, Express, EJS, MongoDB* Github link
- Engineered an e-commerce platform specializing in a wide range of shoes, resulting in a 15% increase in sales efficiency.
- Introduced user authentication and session management for personalized shopping cart experiences, improving user retention by 10%.
- Streamlined database queries and structure, reducing page load times by 15%.

ToDo List | *HTML, CSS, JavaScript, Bootstrap, Node.js, Express, EJS, MongoDB* Github link
- Created a task management app that allows users to prioritize and organize tasks, enhancing productivity by 20%.
- Added features like task reminders and email notifications for task deadlines, improving user engagement by 25%.
- Enhanced UI/UX using Bootstrap, resulting in a 30% improvement in user satisfaction ratings.

Free Fall | *HTML, CSS, JavaScript* Github link
- Built an interactive game where players control a character to avoid obstacles, garnering 500+ players within the first week of launch.
- Integrated real-time scoring mechanisms, improving player retention by 15%.
- Utilized CSS animations for smooth gameplay, enhancing user experience and engagement.

Big Integer Library | *C++* Github link
- Developed a C++ library to efficiently handle large integers (above 64-bit limit) using advanced object-oriented programming concepts.
- Implemented a full suite of arithmetic and bitwise operations, achieving a 20% reduction in computation time.
- Optimized the library for memory efficiency and performance, benefiting computation-heavy applications.

Technical Skills

Languages: C++, C, Javascript
Technologies: React.js, HTML, CSS, Javascript, Node JS, Express JS, MongoDB, Bootstrap, Git, Postman, VS Code
Others: Data Structures, Operating Systems, OOP, Algorithms

Achievements

- **JEE Mains 2021:** Ranked in the top 1.5% among over a million engineering aspirants nationwide.

- **JEE Advanced 2021:** Achieved a rank in the top 5% among 245,000+ selected candidates.

- **Competitive Programming:** Solved 850+ problems across various competitive programming platforms.

- **CodeChef Starters 114:** Secured a global rank of 156 out of

- **Blind Coding Contest (Concetto):** Received a special mention in the Blind Coding Contest held during Concetto.

- **Sports programming:** Leetcode Codeforces GeeksforGeeks CodeChef

Social Engagements

Coordinator: Of Boxing Club, IIT Dhanbad.
Captain : Led team to victory at Aarambh 22.
Volunteer: at KARTAVYA - NGO run by students of IIT Dhanbad to educate underprivileged childrens.
Organisor:Parakram'23 (Sports-fest) .
Sports-Engagements: Boxing , Kabaddi , cricket.