MADHUBONI BASU

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Durgapur, West Bengal ,India

EDUCATION

• **Indian Institute of Information Technology**   *December,2022 - August,2026*
B.Tech Computer Science Engineering   Guwahati,India
  ◦ GPA: 8.3/10

• **Carmel School**   *January, 2007- April, 2020*
Primary Education   Durgapur
  ◦ ISCE 10th boards percentage: 94

• **DAV**   *June,2020 -April,2022*
Higher Secondary Education   Durgapur
  ◦ CBSE 12th boards percentage: 94.3

SKILLS

• **Programming Languages:** C, C++, Python, HTML
• **Web Technologies:** Reactjs, Nodejs
• **Database Systems:** MYSQL, MongoDb
• **Course work:** DSA, Algorithm, DBMS, Operating Systems, Computer Networks

PROJECTS

• **Hostel Management System**   *March 2023*
Tools: HTML, CSS, JavaScript, Node.js, MySQL   [⬤]
  ◦ Engineered a comprehensive web-based Hostel Management System for Indian Institute of Information Technology, Guwahati, optimizing communication and streamlining the management of over 500 rooms and facilities. Achieved a 70
  ◦ Architected and deployed role-based, secure modules for students and wardens, ensuring tailored access and robust data protection. This solution supported a user base of 2,000+ and enhanced system security.
  ◦ Enabled key student functionalities such as:
    ∗ Implemented secure authentication and authorization processes, accelerating user registration efficiency by 50
    ∗ Designed and integrated dynamic room management features, including room and roommate change requests, which increased accommodation flexibility and cut administrative processing time by 40
    ∗ Developed a real-time room cleanliness request and issue reporting system, leading to a 30
  ◦ Enhanced warden functionalities to:
    ∗ Implement an intuitive dashboard for monitoring and managing room requests, optimizing resource allocation, and reducing scheduling conflicts by 35
    ∗ Streamline the processing of roommate change requests and room assignments, improving response time by 40

• **Weather App**   *July 2024*
Tools: HTML, CSS, JavaScript   [⬤]
  ◦ Created an interactive and highly engaging UI for a global weather application, enabling users to effortlessly view current weather conditions for any location worldwide. Enhanced user engagement by 60
  ◦ Integrated OpenWeatherMap API for seamless real-time weather data retrieval, delivering accurate and up-to-date information with a refresh rate of every 15 minutes. Attained 95
  ◦ Implemented advanced features including:
    ∗ Comprehensive search functionality supporting over 200,000 global locations, significantly enhancing user convenience and accessibility, leading to a 30
    ∗ Real-time updates with detailed metrics such as temperature, humidity, wind speed, and precipitation, providing in-depth weather insights and driving a 50

• **To-Do-List App**   *July 2024*
Tools: React.js, Node.js, MongoDB, Express.js   [⬤]
  ◦ Designed and executed a fully responsive UI for a task management application, significantly improving task organization and user productivity across both desktop and mobile platforms. Realized a 50
  ◦ Enabled key functionalities such as:
    ∗ Developed intuitive task creation features with due dates and priority levels, streamlining task management and achieving a 35
    ∗ Integrated one-click task removal functionality, enhancing user satisfaction by 40
  ◦ Incorporated real-time data synchronization and local storage solutions, ensuring seamless data updates across devices and secure storage, resulting in a 25

ACHIEVEMENTS

- Secured top 8,000 ranking in the first round of Flipkart Grid 6.0, 2024, out of 400,000 participants, demonstrating exceptional problem-solving skills and competitive edge.

- **Advanced to Semifinal Round, Rebel Foods EatSure Cloud 2024 Hackathon**
  Developed and submitted an innovative e-commerce idea, showcasing my ability to think critically and creatively in a competitive setting.