

Sahil Tyagi

Portfolio
Github
Leetcode

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EDUCATION

- **Indian Institute of Technology** Guwahati, India
Master of Technology: GPA: 7.74 *July 2022 - Currently*
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Web Development, Networking, Databases
- **University Institute of Engineering and Technology** Kanpur, India
Bachelor of Technology: Chemical Engineering: CPI: 6.85 *July 2017 - July 2021*

SKILLS SUMMARY

- **Languages:** C++, C, HTML, CSS, JavaScript, Typescript, SQL
- **Frameworks:** React.js, Express.js, Vue.js
- **Tools:** MongoDB, GIT, Github, MySQL, Node.js, Postman, VS Code, Socket.IO, WebRTC, Github Pages, Vercel
- **Platforms:** Web, Windows, AWS
- **Soft Skills:** Supervision, Activity Coordination, Written Communication, Presenting, Organizational Efficiency

EXPERIENCE

- **Prodigy Infotech** Remote
Student Developer (Full-time) *May 2024 - June 2024*
 - **Developed and deployed 4 Immersive web applications:** utilizing HTML, CSS, and JavaScript.
 - **Streamlined user Engagement:** by crafting interactive elements like navigation menus, user interfaces for a stopwatch and tic-tac-toe game, leading to a significant 30% improvement in usability and overall user experience.
 - **Leveraged expertise in front-end development:** to integrate a real-time weather data visualization API.
- **Gourav Computer Institute** Kanpur
Instructor (Part-time, Contractual) *July 2021 - July 2022*
 - **Boosted Student Academic Performance:** Implemented personalized learning strategies that resulted in a 25% increase in pass rates for O level exams.
 - **Improved Conceptual Understanding:** Ensured students not only passed exams but also gained a deeper grasp of key concepts through monthly effective preparation techniques.
 - **Increased Student Motivation:** that fostered 15% greater student engagement in the learning process, resulting in a 10% improvement in average test scores.
 - **Impact:** Course has been taken by 200+ students so far with 4.55 average rating.

PROJECTS

- **Fianance Dashboard**
IIT Guwahati
 - **Designed a comprehensive finance dashboard app:** using the MERN (MongoDB, Express.js, React.js, Node.js)
 - **Interactive Data Visualization:** Employs over 5 different chart types (e.g., line charts, bar charts, pie charts)
 - **Provides real-time transaction updates:** Displays the 50 most recent transactions with automatic refresh to ensure users have the latest information.
 - **Executed machine learning models:** using regression analysis to predict next year's revenue.(Feb'24 - April'24)
- **Gericht**
IIT Guwahati
 - **Responsive React.js restaurant website:** with 5+ high-quality photos, an immersive dining video, a clear menu.
 - **Designed intuitive UI/UX:** for smooth webpage navigation and user experience.
 - **Enhanced user engagement:** with newsletter signup, fostering a connection with potential customers.
 - **Mobile-First Design:** Prioritized mobile-first design principles to ensure a seamless user experience for the majority of web platform visitors(July'23 - Aug'23)
- **CPU Scheduling Algorithms**
IIT Guwahati
 - **Built C++ library:** simulating 5 CPU scheduling algorithms (FCFS, RR, SPN, SRT, HRRN) for performance evaluation.
 - **Conducted performance analysis:** of various CPU scheduling algorithms
 - **Optimized process management & scheduling decisions :** using data structures & algorithms
 - **Facilitated in-depth evaluation :** through customizable simulation parameters.
 - **Leveraged OOP :** for a modular & reusable C++ library, promoting efficient system resource management.(May'23 - June'23)

ACHIEVEMENTS

- **Data Structure and Algorithm:** : Enhanced problem-solving abilities by tackling more than 600 data structure and algorithm challenges on platforms including LeetCode, GeeksforGeeks, HackerRank, and Bosscoder.
- **Problem-Solving Skills:** Mastered HackerRank's Problem Solving DSA track with a 5-star rating, reinforcing my analytical and algorithmic thinking skills.