

Sahil Tyagi

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EDUCATION

- **Indian Institute of Technology** Guwahati, India
Master of Technology: CE : GPA: 7.8 *July 2022 - July 2024*
- **University Institute of Engineering and Technology** Kanpur, India
Bachelor of Technology: CE : CPI: 6.85 *July 2017 - July 2021*

SKILLS SUMMARY

- **Languages:** C++, Python, JavaScript, TypeScript, SQL
- **Frameworks/Library:** React.js, Express.js, Tailwind CSS
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Toolset:** Git, GitHub, Node.js, HTML5, CSS, Postman, VS Code, Socket.IO, WebRTC
- **Platforms:** Windows, AWS
- **Other Skills:** Design Patterns , SOLID, Analytical , OOPs, Debugging, Troubleshooting

EXPERIENCE

- **Edify.Club by Winuall** Bangalore
Back-end Developer Intern *Jan 2025 - Present*
 - **Scalable Software and E-Commerce Development:** Contributed in a **high-performance asset management** system and an **e-commerce platform**, scaling to serve **10,000+ users** efficiently.
 - **Optimized Search & Request System:** Implemented an **intelligent laptop search** feature with MongoDB and Slack-integrated requests, reducing manual intervention by **80%**.
 - **High-Performance API & Caching:** Utilized **MongoDB aggregation pipelines** and Redis caching, cutting API response time by **40%** and reducing database queries by **60%**.
 - **Secure User Management & Bulk Operations:** Enhanced bulk deletion by preventing removal of assigned users, maintaining **100% data integrity** and reducing accidental deletions by **90%**.
 - **Checkout Optimization:** Integrated MongoDB with Razorpay, increasing checkout conversions by **15%**.
- **Prodigy Infotech** Remote
Web Developer (Internship) *April 2024 - May 2024*
 - **Immersive Web Applications:** Developed 4 applications creating **responsive** and visually engaging experiences.
 - **User Engagement Boost:** Improved usability by 30% through interactive elements, including navigation menus and interfaces for a stopwatch and tic-tac-toe game.
 - **Real-Time Weather:** Provided 7-day archive of historical data, enhancing user information access by 25%.
 - **Global Coverage:** Enabled weather access for over 1,000 cities worldwide and ZIP codes across the EU, UK, and US.

PROJECTS

- **Financer**
IIT Guwahati
 - **Finance Dashboard App:** Developed with **MERN stack**, featuring 8+ technologies **Recharts, Redux, TypeScript, Material UI** for interactive data visualization with 5+ chart types.
 - **Real-Time Transactions:** Displays 50 recent transactions with live updates using **Redux Toolkit**.
 - **Revenue Prediction:** : Integrated 3 machine learning models **Regression.js** to forecast next year's revenue using **Node.js, Express, and Mongoose** (Feb'24 - Apr'24).
- **Gericht**
IIT Guwahati
 - **Responsive Restaurant Website in React:** Rolled out a visually engaging site with 10+ high-quality visuals and a immersive dining video, along with a streamlined, interactive menu to captivate visitors.
 - **User-Centric UI/UX Design:** Created an intuitive flow across 3+ core sections, enhancing user experience and boosting customer engagement with an accessible, interactive interface.
 - **Mobile-First Optimization:** Applied mobile-first principles, ensuring seamless experiences on all devices, with features like newsletter signup to foster ongoing customer connections. (July '23 - Aug '23)
- **CPU Simulation**
IIT Guwahati
 - **C++ Scheduling Library:** Built a simulation library for 5 key **Operating System scheduling algorithms (FCFS, RR, SPN, SRT, HRRN)** to evaluate performance metrics.
 - **Performance:** Enabled 4 core metrics—arrival, burst, finish, and turnaround times for in-depth analysis.
 - **Optimized Process Management:** Leveraged **OOP principles** and data structures to create a modular, reusable **C++ library**, promoting efficient scheduling decisions and system resource management. (May '23 - June '23)

ACHIEVEMENTS

- **500+:** Data Structures and Algorithms problems completed including Leetcode and GFG.
- **Open Source:** Contributor and actively participated over Hackathons to resolve real world problems.