



Rishabh Rajak

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B.Tech - Electronics and Communication Engineering

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Portfolio

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	5.34 (Current)	2022–Present
Senior Secondary	CBSE Board	73%	2022
Secondary	CBSE Board	75.4%	2020

PROJECTS

- StayFinder** Dec.2024 - Jan.2025
Personal Project GitHub
 - Built a fully responsive hotel booking website using fundamental web technologies, featuring user authentication, property listings, and booking management.
 - Developed **RESTful APIs** and responsive frontend components(**HTML/CSS/JavaScript**), integrated **MongoDB Atlas** for persistence and deployed using **Netlify** and **Render**
 - Implemented advanced property search and filtering, interactive maps (Leaflet), date selection (**Flatpickr**), wishlists, reviews, and booking workflows.
- CodeVerse - LeetCode Clone** Oct.2024 - Nov.2024
Personal Project GitHub
 - Designed and deployed a full-stack **LeetCode** type web application using **Next.js, React, and TypeScript**, creating a platform for practicing algorithmic coding problems.
 - Engineered a secure backend with **Google Firebase**, implementing Firebase Authentication for user registration/login and **Firestore** for real-time data storage of user progress, solutions, and problem data.
 - Executed a dynamic and interactive user interface with **Tailwind CSS and Recoil** for state management, featuring a code editor, problem descriptions, and responsive design for a seamless user experience.
- Data Structures Visualizer** May 2024 - Oct 2024
Group Project GitHub
 - Developed a web application that dynamically visualizes operations on **stacks, queues, linked lists and trees**.
 - Integrated real-time features for adding, removing, searching, and modifying elements, complete with smooth animated transitions that improved user interaction and made complex data structure operations more intuitive.
 - Utilized **ReactJS, JavaScript, and CSS** to build and style the application, ensuring a seamless and engaging user experience.
- Real Time Chat** Mar.2024 - Apr.2024
Group Project GitHub
 - Built a **full-stack**, real-time chat app using **React (Vite), Tailwind/DaisyUI, Socket.io, Node.js, Express, and MongoDB**.
 - Applied **JWT authentication, bcrypt password hashing**, Cloudinary image uploads, and **RESTful APIs** for secure user management.
 - Enabled instant messaging, presence indicators, image sharing, theme switching, responsive UI, and optimized state management with **Zustand**.

TECHNICAL SKILLS

- Programming:** Python, C, C++, JavaScript*
- Web Technologies:** HTML, CSS, NodeJS, Tailwind CSS*, ReactJS*
- Database Management:** MySQL, MongoDB, Firebase*
- Miscellaneous:** Arduino IDE, Postman, Git, GitHub, MATLAB*
- Operating Systems:** Windows, Linux * Elementary proficiency

KEY COURSES TAKEN

- Mathematics:** Linear Algebra, Basic Calculus, Probability & Random Processes
- Electronics and Communication:** Digital Circuits, Computer Networks, Control Systems, Signals and Systems
- Computer Science:** Data Structures and Algorithms, Blockchain Science and Technology, Machine Learning using Python(Simplilearn)

POSITIONS OF RESPONSIBILITY

- Core Team Member, Electronics Club, IIT Guwahati** Apr.2024 - Apr.2025
 - Represented Electronics Club at **TechEvince 10.0**, the annual technical exhibition, by exhibiting **FinFlow** project.
 - Organized and conducted **5+** hands-on workshops on topics including **Arduino programming** and **IoT** for over **100** student attendees.

ACHIEVEMENTS

- JEE Advanced 2022:** Secured a rank in the top **7%** among 200,000 candidates who appeared for the test.
- SOF (NSO) 2021:** Secured International Rank **368** and Regional Rank **123** among 50,000 candidates

EXTRA CURRICULAR ACTIVITIES

- Spardha(Inter hostel sports competition):** Represented Disang hostel in **Hockey** and **Carrom**
- Accenture:** Completed a **Software Engineering** Job Simulation focused on Agile methodologies, programming, architecture , security and testing.
- Deloitte:** Participated in a **Data Analytics** Job Simulation, completing practical tasks in **data analysis and forensic technology**.
- AWS(Amazon Web Servers):** Completed a Solutions Architecture Job Simulation that involved designing a simple and scalable hosting architecture