



Rishabh Rajak

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
GitHub
Personal Project
 - Built a **full-stack**, responsive hotel booking platform using a modern **React** and **Vite** frontend, styled with **TailwindCSS** and deployed on **Vercel**.
 - Leveraged **Supabase** for all backend services, implementing secure user Authentication, a **PostgreSQL** database for hotel/booking data, and Storage for media assets.
 - Implemented comprehensive features including dynamic hotel search, detailed property pages, a personalized user dashboard, a multi-step booking flow, and separate Admin/Owner portals.
- **CodeVerse - LeetCode Clone** Oct. 2024 - Nov. 2024
GitHub
Personal Project
 - 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 **Firebase** 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
GitHub
Group Project
 - 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.
- **Our Voice Our Rights** Jul. 2025 - Sep. 2025
GitHub
Personal Project
 - Engineered a full-stack civic transparency platform to process and visualize real-time **MGNREGA** data, empowering **15.2M+** beneficiaries across **732** districts.
 - Developed an interactive analytics dashboard and a side-by-side district comparison tool, visualizing key metrics like wage payments, employment trends, and transparency scores with interactive charts.
 - Developed and documented a public **RESTful API** to provide open data access, implementing robust security measures including **SSL/TLS** encryption, **API key** authentication, and data sanitization protocols.
- **Real Time Chat** Mar. 2024 - Apr. 2024
GitHub
Group Project
 - 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:** C++, Python, C, JavaScript
- **Web Technologies:** HTML, CSS, NodeJS, Tailwind CSS, ReactJS
- **Database Management:** MySQL, MongoDB, Supabase, Firebase
- **Miscellaneous:** Arduino IDE, Postman, Git, GitHub, MATLAB
- **Operating Systems:** Windows, Linux

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.
- **JEE Mains 2022:** Qualified **JEE Mains**.
- **LeetCode:** Solved **420+** questions in leet code. Handle

EXTRACURRICULAR ACTIVITIES AND CERTIFICATIONS

- **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