



Rishabh Rajak

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B.Tech - Electronics and Communication Engineering

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Github | Portfolio

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	6.25 (Current)	2022-Present
Senior Secondary	CBSE Board	92.6%	2022
Secondary	CBSE Board	89.4%	2020

PROJECTS

- **Real Time Chat** Mar.2025
Group Project Github/Web
 - Developed a real-time chat application using Node.js, Express.js, Socket.IO, and MongoDB.
 - Implemented Real-time messaging with Socket.IO, user authentication (login, signup, profile), chat rooms and personalized user profiles.
 - Ensured data persistence for users and messages with MongoDB, and built a responsive, interactive UI using HTML, CSS, and vanilla JavaScript.
- **Fin Flow** Oct 2023-May 2024
Electronics Club(Group Project) Github
 - Built an IoT-based smart pond monitoring system to automatically track key water quality parameters and alert farmers when readings exceed safe limits.
 - Used analog sensors to measure dissolved oxygen and pH levels, and implemented the Berthelot Reaction to detect ammonium ion concentration.
 - Programmed and operated O₂, pH, and spectrophotometric sensors using Arduino IDE.
- **StayFinder** Jan. 2025
Personal Project Github/Web
 - Built an online hotel booking platform using HTML, CSS, and JavaScript for the frontend, with Node.js and MongoDB powering the backend.
 - Integrated smart property search, interactive maps via Leaflet.js, animated date pickers, wishlist functionality, and a responsive UI to deliver a seamless and engaging user experience for discovering and booking unique accommodations.
- **Personal Portfolio** Mar.2024
Personal Project Github/Web
 - Designed and developed a personal portfolio website featuring responsive design, animated sections, and smooth navigation using HTML, CSS, and JavaScript.
 - Integrated interactive UI components, including tabbed grade/matriculation viewers and modal PDF embedders.

TECHNICAL SKILLS

- **Programming:** Python, C/C++
- **Web/App Technologies:** HTML, CSS, JavaScript
- **Database Management:** MySQL, MongoDB
- **Miscellaneous:** ArduinoIDE, LabView, Autodesk
- **Operating Systems:** Windows, Linux

KEY COURSES TAKEN

- **Mathematics:** Linear Algebra, Basic Calculus, Probability & Random Processes
- **Electronics And Communication:** Digital Circuits, Signals and Systems, Control Systems, Blockchain Science and Technology
- **Computer Science:** Data structure and algorithms

POSITIONS OF RESPONSIBILITY

- **Core Team:** Electronics Club, IIT Guwahati Apr.2024 - Apr.2025

ACHIEVEMENTS

- **JEE Advanced 2022:** Secured a CRL rank of 13341 and Category rank 405

EXTRA CURRICULAR ACTIVITIES

- **Techevince 10.0:** Exhibited FinFlow, a Smart water monitoring project, at the Annual Technical Exhibition organized by Technical Board of IIT Guwahati.