Rishabh Rajak

Roll No.:220102080
B.Tech - Electronics and Communication Engineering

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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
  - Developed 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 O_2, pH, and spectrophotometric sensors, as well as a 1.5-inch OLED display, using Arduino IDE.

- **StayFinder** — *Jan. 2025*
  Personal Project — Github/Web
  - Built a 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
  - Developed a **personal portfolio website** featuring responsive design, animated sections, and intuitive 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.