

Suman Basak

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EDUCATION

- **Techno Bengal Institute of Technology**

Kolkata, India

Bachelor of Engineering in Electrical and Electronics Engineering (CGPA: 7/10)

Aug 2023 – Jul 2027

PROJECTS

- **Chattix**

Full Stack Chat Application — Live — GitHub

- **Architecture:** Upgraded a real-time chat application using the MERN stack with a scalable client-server architecture.
- **Authentication:** Executed secure user authentication and authorization using JWT, enabling protected routes and session handling.
- **Real-Time Communication:** Applied socket-based messaging for instant message delivery and real-time user interactions.
- **API Development:** Expanded RESTful APIs for user management, message handling, and conversation storage using Express.js and MongoDB.
- **UI/UX:** Fine-tuned a responsive and user-friendly interface using React, ensuring cross-device compatibility.

- **Skillora**

Frontend Web Application — Live — GitHub

- **Web Design:** Refined a modern educational platform using HTML and CSS with a focus on clean UI and usability.
- **Responsive Layout:** Boosted cross-device accessibility by applying fully responsive layouts for desktop, tablet, and mobile.
- **User Experience:** Enhanced course structure and content flow to strengthen navigation and user engagement.
- **Deployment:** Enforced production-ready deployment on Vercel, ensuring fast load times and reliable hosting.

- **Discord Chatbot**

Automation Bot — GitHub

- **Bot Development:** Expanded a Discord chatbot using JavaScript and the Discord API to automate server interactions.
- **Command Handling:** Executed custom commands and event listeners to process user inputs and server activities efficiently.
- **Server Utilities:** Improved moderation and utility features to support server management and community engagement.

EXPERIENCE

- **GirlScript Summer of Code (GSSoC)**

Remote

Open Source Contributor

Summer 2024

- **Open Source Contribution:** Improved open-source projects by fixing bugs, refining documentation, and adding new features through GitHub collaboration.
- **Tech Stack:** Worked with Git, GitHub, JavaScript, and REST APIs in a collaborative open-source environment.

TECHNICAL SKILLS

- **Languages:** C++, JavaScript, Java, C, SQL

Frameworks & Tools: React, Node.js, Express.js, MongoDB, Git, GitHub

Other: REST APIs, HTML, CSS, Data Structures and Algorithms