

Sowmik Roy

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EDUCATION

Shahjalal University of Science and Technology, Sylhet
BSc (Engg.) in Software Engineering, IICT

2021 - Ongoing
CGPA: 3.53

SKILLS

Languages: Python, JavaScript, C/C++, Java
Web Technologies and Frameworks: HTML, CSS, React, Node.js
Databases: MySQL, MongoDB
Version Control: Git, Github
Tools and Miscellaneous: VSCode, PostMan, Vercel, Figma

PROJECTS

Medi Consult - Healthcare Consultation Platform | [GitHub](#) | [Live Site](#)

Technology and Tools: HTML, CSS, ReactJS, NodeJS, ExpressJS, VSCode, MongoDB

- Developed responsive medical consultation interface with interactive appointment scheduling, drag-and-drop calendar functionality, and role-based dashboards for patients, doctors, and administrators. Implemented auto-complete patient search, real-time form validation, and Chart.js data visualization while ensuring mobile-first design and WCAG accessibility compliance.

Real State - Property Management Platform | [GitHub](#)

Technology and Tools: HTML, CSS, ReactJS, NodeJS, ExpressJS, VSCode, MongoDB

- Developed a responsive React.js frontend for a real estate platform featuring user authentication with Google OAuth, property listing management with image uploads via Firebase Storage, Redux state management, and modern UI design using Tailwind CSS.

FoodieBhai - Online Food Ordering App | [GitHub](#)

Technology and Tools: Kotlin

- Developed an online food ordering app that connects users with restaurants with secure payment processing, and personalized recommendations while enabling restaurant partners to manage their menus, track orders, and grow their customer base. This project is built for Android using Kotlin, featuring XML layouts and Material Design components to provide a smooth, visually appealing, and user-friendly interface.

Facial Expression Detection - Emotion Recognition System | [GitHub](#) | [Video](#)

Technology and Tools: HTML, OpenCV, NumPy, Keras, Flask, TensorFlow, Matplotlib

- Developed a facial expression recognition system to classify emotions from real time video using a CNN model trained on facial datasets. Flask, TensorFlow, and OpenCV handle the back-end, with HTML/CSS for the front-end, and PIL and base64 encoding for image processing.

Profile Based Task Manager | [GitHub](#)

Technology and Tools: HTML, JavaScript, NodeJS, MongoDB, VSCode, PostMan

- Implemented user authentication using JWT, streamlined CRUD operations for To-Do management, and adopted a modular backend design for better scalability and maintainability.

Fun Projects | [Snake Game](#) (C++) | [Flappy Bird](#) (Java) | [Tic-Tac-Toe](#) (C++) | [Calculator](#) (Java)

- Developed these games and projects for learning and fun as part of an experiment.

PROBLEM SOLVING

Solved **over 500 problems** on platforms like [Codeforces](#)(Max Rating: 1290, pupil), [VJudge](#), [CodeChef](#)(Max Rating: 1553, 2-star), [AtCoder](#) etc.

ACHIEVEMENTS

- Successfully completed the **Python Programming and Data Science** course, a training under the EDGE Project, BCC, ICT Division. | [Certificate](#) Dec '24 – Feb '25
- Completed **SQL(Intermediate)** skill certification test on HackerRank | [Certificate](#) Aug '25
- Selected among the top 10 innovative projects, earning the opportunity to present alongside top teams from SUST in **University Innovation Hub Program(UIHP)** Apr '24
- Participated in **2021 Asia Dhaka ICPC Preliminary Regional Contest** | [Certificate](#) Sep '22

THESIS(ONGOING)

- Currently I am working on building an AI-powered **GitHub Pull Request reviewer** using a Large Language Model to streamline code reviews and enhance collaboration.