SUMONTA SAHA MRIDUL

Undergrad. Software Engineer , SWE - SUST

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PROJECTS

🖥 SUST Autorickshaw Management System [% Link]
Academic Project 350   📅 October 2023 – December 2023

- Developed a website to automate SUST University's auto-rickshaw management system through real-life **requirement analysis**.
- Implemented user-friendly registration, permission procedures and payment management for drivers, owners, auto-rickshaws, and SUST authorities with extensive validation checks.
- Real time monitoring & scheduling System for auto-rickshaws.

ReactJS | Express | MySQL | NodeJs | Real-time Monitoring

🖥 Eco-Sync : Waste Management in DNCC [% Link]
Code Samurai Hackathon Project   📅 24 March 2024 - 31 March 2024

- Developed a waste management website featuring dynamic and flexible role-based authentication and permission accessibility.
- Introduced real-time route checking using Google Maps API.
- More features such as user management, data entry for vehicles and sites, billing functionalities for waste collection supervision.

ReactJS | Express | MongoDB | Tailwind CSS | NodeJs

📱 Rent IT : Online Product Renting App [% Link]
Academic Project 250   📅 December 2022 – November 2023

- Developed a rental app facilitating lending and borrowing of various items like dresses, furniture, electronics, and vehicles.
- Implemented real-time renting functionality using Firebase, enabling simultaneous lending and borrowing, data updates and authentication.

Java | OOP | Android App | Firebase | Figma

🖥 Atmossense : Realtime Air Quality & Geo Data [% Link]
DU Hackathon Project   📅 3 November - 4 November 2023

- Created an API-powered website for exploring global air quality data, providing real-time insights, interactive maps, and economic factors.

Open APIs | ReactJS | Express | Real-time Data | MySQL

🖥 KIDDO : Child Consultancy Website [% Link]
LU Hackathon Project   📅 December 2018 – January 2019

- Developed platform with instant personalized consultations, child product marketplace, and real-time chat with advisor using Socket.io.

ReactJS | Express | MySQL | Real-time Chat | Socket.io

🖥 Survive IT : 2D Game [% Link]
Personal Project   📅 December 2018 – January 2019

- Develop a Machine Learning based application with Flask and use it to predict and detect youtube spam comments.

🖥 More Personal and Academic Projects [% Link]

MriShot : Photography Showcasing Website | DALL-E-Vision

Task-Mate | ReactJS-Simplify-Template | DiscordBOT

Web-Extension | GPT-Vai

SKILLS

C/C++ | HTML | Javascript | CSS | Java
ReactJS | Tailwind CSS | NodeJS | Express
MySQL | Git | GitHub | Python | MongoDB

ACHIEVEMENTS

🏆 **1st Runners-up in Project Showcasing Category in IEEE Branch Fest, BUP**
Secured **2nd Postition among 60+ teams**, competing against hardware projects with our software-only entry.

📱 **Top 5 in Mobile App & Game Idea Competition, Sylhet**
Recognized among the **top 5 Mobile App Ideas** by the **ICT Division, Govt. of Bangladesh**, with the opportunity to present on a **prominent stage** in the Sylhet Region.

🏆 **Top 10 in IT VERSE Hackathon, Dhaka University**
Out of 150+ teams, reached the final and achieved a top 10 ranking in the hackathon **(API Category)** hosted by DU

🏆 **Top 14 in IT VERSE-2023 Project Showcasing ,DU**
Shortlisted among the top **14 projects out of 90+ projects** in the project showcasing hosted by Dhaka University

🏆 **Top 8 in Brainstation Hackathon, Technovent SUST**
Out of 90+ teams, reached the final and achieved a top 8 ranking in the 36hr hackathon hosted by SWE, SUST

💡 **800+ Problems Solved in Different Platforms**
Successfully solved over 800 problems on platforms including **Codeforces, CodeChef, and LeetCode**.

G **Passed Level 2 in Google Foobar Invitation**
Received invitation and successfully completed Level 2 in **Google's Foobar Secret Hiring Challenge.**

🏆 **Top 50 in Code Samurai Hackathon 2024**
Ranked among the top 50 out of 400+ teams in the Code Samurai Hackathon 2024.

OPEN SOURCE CONTRIBUTION

🏆 **Passed All Four Level of Hacktoberfest 2023**
- MQTT Protocol, MQTT broker setup, Mesh Network Design.

🐙 **GitHub Tutorial**
- ESP programming using ESP-IDF, Xtensy-based mcu, ARM-based mcu (STM32x, Cortex ...)

🐙 **GitHub-Follower-Notification-Action-Bot**
- ESP programming using ESP-IDF, Xtensy-based mcu, ARM-based mcu (STM32x, Cortex ...)

EDUCATION

🎓 **B.Sc.(Eng.) in Software Engineering**
Shahjalal University Of Science And Technology
📅 Sept 2019 – Present   📍 CGPA : 3.85 (up to 7th semester)

🎓 **Higher Secondary Certificate (HSC) in Science**
Notre Dame College
📅 Sept 2019 – Ongoing   📍 France, Gif-Sur-Yvettes