SUMONTA SAHA MRIDUL

Undergrad Software Engineering Student, SUST

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PROJECTS

💻 Eco-Sync : Waste Management in DNCC   [🔗 Link]

Code Samurai Hackathon Project   📅 24 March 2024 - 31 March 2024

- Developed waste management website meeting judges' requirements **in 8 days**, including diagram design and **API documentation**.
- Implemented **dynamic & flexible role-based authentication** and permission accessibility of website, allowing admins to **modify roles and permissions dynamically**, ensuring both scalability and security.
- 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 | Figma

💻 SUST Autorickshaw Management System   [🔗 Link]

Academic Project 350 : 4.00/4.00   📅 September 2023 – December 2023

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

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

📱 Rent IT : Online Product Renting App   [🔗 Link]

Academic Project 250: 4.00/4.00   📅 December 2022 – November 2023

- Developed an renting-based **Android app** providing renting facilities for different products with **user-friendly UI** including **UI/UX design**.
- Implemented User **registration** and **authentication** using **Firebase**.
- Integrated features allowing users to browse and rent products, add product details with images, see rental history, and donate items with real-time dynamic **database integration**.

Java | OOP | Android App | Firebase | UI/UX Design : Figma

💻 Atmossense : Realtime Air Quality & Geo Data   [🔗 Link]

DU Hackathon Project   📅 3 November - 4 November 2023

- Developed an API-powered website **showing real-time air quality** metrics for cities from **Open APIs**, with a user-friendly design **in 24hr**.
- Integrated **well-documented API endpoints** & management in the backend by implementing **lazy loading for handling API requests**.

💻 Survive IT : 2D Game   [🔗 Link]

Academic Project 150: 4.00/4.00   📅 March 2022 – September 2022

- Developed a game using **LibGDX** and **Java**. Key features include the hero's flying and running abilities, battling enemies in air and water.

💻 More Personal and Academic Projects   [🔗 Link]

CodeCraft : Web-Extension | KIDDO : Child Consultancy Website

MriShot : Photography Showcasing Website | ChatBot : GPT-Vai

Task-Mate : To-Do Web Application | 2D Game : Survival of Warrior

SKILLS

ReactJS | Tailwind CSS | GitHub | MySQL
C/C++ | Java | Javascript | Express | NodeJS

ACHIEVEMENTS

🏆 **1st Runners-up in Project Showcasing Category in IEEE Branch Fest, BUP**
Secured **2nd Position 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 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

🏆 **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

🏆 **2nd in Preliminary Round 2 (Finalist), Top 45 in Code Samurai Hackathon 2024, Dhaka University**
Achieved **2nd position** in Preliminary Round 2, securing final **top 45 out of 400 teams**, with a **score of 89/100**.

💡 **750+ Problems Solved in Different Platforms [🔗]**
Successfully solved over 750 problems on **LeetCode, Codeforces (1050+ Rating) and CodeChef (3 ⭐ Star)** .

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

OPEN SOURCE CONTRIBUTION

🏆 **Passed All Four Level of Hacktoberfest 2023 [🔗]**
- Contributed to and successfully **merged pull requests in four open-source projects** listed by Hacktoberfest.

🐙 **Comprehensive Git and GitHub Tutorial [🔗]**
- Created beginner-friendly open-source project with **15+ ⭐ Stars on GitHub** to teach Git from scratch.

🐙 **GitHub-Follower-Notification-Action-Bot [🔗]**
- Developed an open-source project with **Python** and GitHub **Workflow** with **setup documentation**. The project sends daily email updates about followers. This repository has **11+ ⭐ Stars on GitHub**.

EDUCATION

🎓 **B.Sc.(Eng.) in Software Engineering**
Shahjalal University Of Science And Technology
📅 February 2020 – Present   🎓 **CGPA : 3.83 (6th semester)**

🎓 **Higher Secondary Certificate (HSC) in Science**
Notre Dame College
📅 January 2017 – January 2019   🎓 GPA : 5.00