

# 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

🏆 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.

🏆 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 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 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

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

🏆 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