

# Somiha Tasnim



somiha



somihatasnim



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## ABOUT ME

I am Somiha Tasnim, a recent graduate in Computer Science and Engineering. My passion lies in programming, and I possess a robust proficiency in data structures, algorithms, and web development within the JavaScript stack. My aspiration is to embark on a fulfilling journey as a software engineer, leveraging my expertise and enthusiasm to contribute effectively to the field.

## PROJECTS

### KANBAN TASK MANAGEMENT || REACT, JAVASCRIPT

- Developed a Kanban Web App enabling easy board and task creation, modification, and deletion for efficient organization.
- Implemented subtask completion, enhancing task detail and progress monitoring.
- Incorporated Drag and Drop for smooth task movement across columns, improving user experience.
- Utilized TailwindCSS, React, and Redux to craft a responsive and seamless UI.

### BLOG APPLICATION || REACT, JAVASCRIPT

- Developed a personal blog application that allows users to create, edit, delete and publish their own blog posts..
- Created a dynamic blog dashboard powered by MongoDB, featuring data retrieval and display.
- Implemented functionality to fetch individual posts by post ID, and enabled filtering by username or category name.

### STUDENT FEEDBACK SYSTEM || PYTHON, DJANGO, HTML, CSS

- Developed a system for collecting student feedback on a teacher's performance.
- It is only visible to Superadmin which students provide which kind of feedback.
- Admins provide a user's default information. These details can be updated by the user.

## RESEARCH

### LEARNPERFFUZZ - GENERATING PATHOLOGICAL INPUTS USING GREY-BOX FUZZING WITH KNOWLEDGE ENHANCEMENT

- Developed **LearnPerfFuzz**, a fuzzing tool with a focus on algorithmic complexity.
- Leveraged greybox fuzzing techniques and knowledge enhancement to generate pathological inputs, uncovering vulnerabilities and performance issues that may arise due to complex algorithms.
- **LearnPerfFuzz** was competitively selected for participation in the SBFT'23 Tool Competition, as recognized on the official SBFT'23 website (link: <https://sbft23.github.io/papers/>).

## SKILLS

### LANGUAGES

JavaScript • C++ • Python

### FRAMEWORK/LIBRARIES

React • Node.js • Django

### DATABASE

MongoDB • MsSql • MySql

### TECHNOLOGIES

Git • VsCode • MacOS • Windows

## EDUCATION

### JASHORE UNIVERSITY OF SCIENCE AND TECHNOLOGY

BACHELOR'S IN COMPUTER SCIENCE  
AND ENGINEERING

Jan 2018 - Jan 2023

Faculty of Engineering and Technology  
CGPA: 3.56 / 4.0

### JHIKARGACHA MOHILA COLLEGE

HIGHER SECONDARY SCHOOL CERTIFICATE

2017 | Jashore

GPA: 5.0 / 5.0

## EXTRACURRICULAR ACTIVITIES

### PROGRAMMING CONTEST

- Participated in National Girls' Programming Contest 2021
- NSU Inter University Girls' Programming Contest Season-2 2019
- Participated in Brain Craft Ltd. Bitfest KUET IUPC 2019.
- Participated in National Girls' Programming Contest 2018

### OTHER ACTIVITIES

- Participated in "bdapps National Hackathon 2022".
- Solved 150+ programming problems including 60+ problems in Codeforces under the username stasnimjes 70+ in UVA under the username somiha.