

SHIFAT JAHAN SHIFA

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EDUCATION

University of Dhaka	Bachelor of Science in Software Engineering Current CGPA: 3.95/4.00 (upto 4 th semester)	Expected December 2025
Holy Cross College	Higher Secondary School Certificate Overall GPA: 5.00/5.00	June 2020
Bindu Bashini Govt. Girls' High School	Secondary School Certificate Overall GPA: 5.00/5.00	June 2018

ACADEMIC PROJECTS

Invisible Ink & Animated Frame Encoder: Image Steganography And GIF Encoder	January 2023 - May 2023
Individual project for the course Software Project Lab-1 (SE-305) supervised by Dr. B.M. Mainul Hossain, Professor.	
<ul style="list-style-type: none">Built a stego tool for image steganography using C++ language. The project includes raw implementation. No library was used.Implemented "LSB" technique for steganography.Used 24-bit BMP Image as cover media and text as hidden information for image steganography. Any 24-bit BMP image with compression value "0" and colorplanes with "1" can be used as cover media.Implemented "LZW" algorithm using "Trie" data structure for lossless compression in GIF file.Used 8 sets of pixel values which were used in this project randomly.	
<u>Score:</u> got an A+ in this project.	

Skin Detection: Skin Detection Using Bayesian Classifier	January 2024
Individual task in the course Database Management System-2 (CSE-504)	
<ul style="list-style-type: none">Used c language to implement the task.Utilized a dataset consisting of 555 JPG images and 555 BMP mask images for training the model.Trained the model successfully within a mere 3 seconds and conducted testing in under 1 second.	

eAccessibility: Web Content Accessibility Analysis Tool	January 2024 - Present
Team project for the course Software Project Lab-2 (SE-506) supervised by Dr. Zerina Begum, Professor.	
<ul style="list-style-type: none">Will build a tool to analysis the accessibility of web content to disable people.Will follow w3c (WCAG 2.1) guidelines to build the accessibility tool.Proposed to use frontend technology: Reactjs , backend technology: Nodejs , database: MySQL	

SKILLS

- Problem Solving
- Quantitative Analysis
- Data Structure and Algorithm
- Object Oriented Programming
- Programming Language: C, C++, Java, Python, Bash Shell, JavaScript
- Image Processing

AWARDS

- Participated in the NGPC (National Girls' Programming Contest) main round in 2022. Secured 22nd position in combined list and 1st position from our university.
- Enlisted as one of the top 100 contestants in Codechef starter contest-41.
- Participated in the Meta Contest in 2022 and cleared the elementary round.
- Achieved a certificate for 100% attendance during July 2018 – July 2020 from Holy Cross College.
- Achieved Govt. scholarship on board exam of Primary School Certificate, Junior School Certificate, Secondary School Certificate and Higher Secondary School Certificate.

COMMUNITY ENGAGEMENT

- Worked as a mentor for programming contest event in Holy Cross College Science fair in 2022.
- Acted as a Class Representative during January 2022 – April 2022 of batch bsse13 at Institute of Information Technology, University of Dhaka.

ADDITIONAL INFORMATION

Languages: English (Fluent), Bangla (Native).

Interests: Drawing, Writing Poem, Reading Book.

REFERENCES

Dr. kazi Muheymin-Us-Sakib

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