

SHIFAT JAHAN SHIFA

bsse1301@iit.du.ac.bd | +8801830912025

Mogbazar, Dhaka-1217, Bangladesh | [linkedin profile](#) | [github profile](#) | [codeforces profile](#) | [codechef profile](#)

EDUCATION:

- **Bachelor of Science in Software Engineering**

IIT, University of Dhaka

2022 - present

CGPA - 3.96 / 4.00 (till 5th semester)

- **Higher Secondary School Certificate**

Holy Cross College

2018 - 2020

GPA - 5.00 / 5.00 (General Scholarship)

PROJECTS:

- **eAccessibility: Web Content Accessibility Analysis Tool | A web application**

Reactjs | Nodejs | MySQL | Puppeteer

- Built a tool to identify the accessibility violations in web content according to w3c (WCAG 2.1) guidelines.
- Provided solution (HTML file) with the right practices of web contents where the accessibility violations occurred.

Github repo: [eAccessibility](#)

- **Basic-Stack Overflow: A mimic of stack overflow | A distributed web application**

Reactjs | Nodejs | MongoDB | Minio | Docker | Ongoing

- Implemented authentication, post, notification service in a monolithic architecture.
- Currently decomposing the application into microservices using docker.
- Used nginx as a reverse proxy server.

Github repo: [Basic-stack overflow](#)

- **MentorMate: AI assistant teacher training solution | A web application**

Reactjs | Python | FastAPI | Streamlit | Gemini API

- Implemented PDF summarizer which facilitates asking questions from the PDF.

Github repo: [MentorMate](#)

- **Gomoku: A game with AI opponent | A web application**

HTML | CSS | Javascript | Bootstrap | Flask | Python

- Designed the game board.
- Developed heuristics of the game.

Github repo: [GoMoku](#)

- **Invisible Ink: Image Steganography Tool | A console based application**

C++ | C | Image processing

- Built a stego tool for image steganography using LSB technique.

Github repo: [Invisible Ink](#)

COMPETITIVE PROGRAMMING:

- Solved more than **1000** problems
- Participated in **100+** online contests
- Solved problems in **14+** online judges
- **Codeforces OJ** - solved **650+** problems, Max rating: **1308(Pupil)**
- **Codechef OJ** - solved **100+** problems, Max rating: **1625 (3 star)**
- **Atcoder OJ** - solved **100+** problems

ACHIEVEMENTS:

- **NGPC (National Girls' Programming Contest)** - secured 22nd position in the main round
- **Codechef starter 41** - awarded with linkedin premium subscription for being ranked among top 100 contestants in div-4
- **Meta cup 2022** - cleared the elementary round
- **ICPC online preliminary 2023** - honorable mention
- **Dhaka divisional hackathon** - finalist
- **NASA Space App Challenge 2024** - national finalist

SKILLS:

- **Programming languages:** C, C++, Java, Python, Javascript
- **Backend technologies:** Nodejs, Express, Flask
- **Frontend technologies:** HTML, CSS, Tailwind CSS, Reactjs
- **Database:** Oracle, MySQL, MongoDB, Minio, Redis
- **Tools:** github, wireshark, jmeter, selenium, docker, postman, figma design

COMMUNITY ENGAGEMENT:

- Worked as a mentor for a programming contest in Holy Cross College science fair.
- Wrote blogs on problem solving in medium.
- Explained solution of two problems in codechef.
- Took a hands-on session on MS WORD for the students of University of Dhaka.

REFERENCES:

Dr. kazi Muheymin-Us-Sakib
Professor
Institute of Information Technology
University of Dhaka
Contact: +8801730051232
Email: sakib@iit.du.ac.bd

Dr. Ahmedul Kabir
Associate Professor
Institute of Information Technology
University of Dhaka
Contact: +8801875179981
Email: kabir@iit.du.ac.bd