

# ANIKA ISLAM

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 [Anika Islam](#) |  [anikabytes](#) |

Dhaka, Bangladesh

## EXPERIENCE

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### • BRAC University

CSE Student Tutor

February 2024 - Present

Dhaka, Bangladesh

- Provides offline and online consultations
- Assists lab faculties in conducting lab classes
- Assists students in problem solving and provided academic supports
- Checks and grades lab assignments and quiz scripts
- Provides constructive feedback on assignments and quiz

### • Physics - The Study Town

EDEXCEL IAL Physics Teaching Assistant

October 2023 - Present

Dhaka, Bangladesh

- Conducted online classes for students and helped them in problem solving for 2 months.
- Invigilates monthly exams and mock tests.
- Checks and grades exam scripts.

### • MQ's School of Mathematics

EDEXCEL IAL Mathematics Teaching Assistant

June 2023 - July 2024

Dhaka, Bangladesh

- Conducted extra classes to assist students in their academics and problem solving.
- Prepared mark schemes and question papers for monthly exams and mock tests.

### • Chemistry - The Study Town

EDEXCEL IGCSE Chemistry Teaching Assistant

August 2023 - October 2023

Dhaka, Bangladesh

- Checked and graded exam scripts.

## EDUCATION

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### • BRAC University

Bachelors of Science in Computer Science and Engineering

Spring 2021 - Present

Dhaka, Bangladesh

- CGPA: 3.99/4.00

### • Maple Leaf International School

EDEXCEL IAL

June 2018 - January 2021

Dhaka, Bangladesh

- Grade : 2 As & 2 Bs

### • Maple Leaf International School

EDEXCEL IGCSE

June 2017 - June 2018

Dhaka, Bangladesh

- Grade : 6 A\*s & 3 As

## SKILLS

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- **Programming Languages:** Python, Java, C, Javascript
- **Web Technologies:** React JS, Tailwind CSS, HTML, CSS, PHP
- **Database Systems:** MySQL
- **Data Science & Machine Learning:** Numpy, Pandas, Scikit-learn, Matplotlib
- **DevOps & Version Control:** Git, Github
- **Mathematical & Statistical Tools:** MathLAB, Excel
- **Platforms & OS:** VScode, Jupyter Notebook, Google Colab, Kaggle, Linux
- **Other Tools & Technologies:** Capcut, Photoshop, Picsart
- **Research Skills:** LaTeX, Literature Review, Data Analysis, Statical Interference, Experimental Design
- **Soft Skills:** Time Management, Critical Thinking, Teamwork and Collaboration

## PROJECTS

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### • Course Tracker [[Live Demo](#)]

October 2024

Tools: React JS, Tailwind CSS, GitHub, Excel



- **Brief Description:** Both desktop and mobile responsive website for accessing available course contents.
- Implemented features such as prompts appear for incomplete courses and unavailable course contents, course contents stored in GitHub repository and spreadsheet.
- Developed User friendly UI.
- Website has been made live through GitHub pages.

### • DIY Design And Collaboration Website

February 2024 - May 2024

Tools: MERN



- Contributed in the frontend by using React JS and Tailwind CSS
- Implemented the component for Navigation bar and complete UI for Design Clothes
- Introduced features like add text, change text color and size, move text on the cloth, change size of clothes for male and female separately, color palette configuration and save the design in the Design Clothes page.

### • Stress Level Detection

February 2024 - May 2024

Tools: Scikit-learn, Matplotlib



- **Individual Contribution :-**
- Pre-processed the dataset.
- Implemented the models on the pre-processed dataset.
- Implied comparison analysis using confusion matrix, classification report and prediction accuracy.

### • Tic Tac Toe

February 2024 - May 2024

Tools: 8086 Assembly Language



- **Individual Contribution :-**
- Implemented the feature where game ends when a player wins

### • Snake Animation Game

September 2023 - Decemeber 2023

Tools: OpenGL



- **Individual Contribution :-**
- Handled snake movement and food allocation using Midpoint Circle Algorithm and Midpoint Line Algorithm respectively.
- Designed the food color for each scores
- Introduced features like dark and light mode and snake length increment.

## • Music Streaming Service

February 2023 - May 2023

Tools: HTML, PHP, CSS, MySQL



### ◦ Individual Contribution :-

- Implemented login and logout separately for both Admin and End Users.
- Designed the UI for both Admin and End Users.
- Introduced change password feature during login
- Connected the frontend and backend together using MySQL and PHP

## • Grading System [Live Demo]

October 2024

Tools: React JS, Tailwind CSS, GitHub



- **Brief Description:** For mock/class test marks calculation and grading of EDEXCEL O'Level and A'Level.
- Implemented features such as user inputs, calculating the numbers obtained by deducting the marks lost, visual representation of the marks obtained by all students in tabular form and statical representation. Results can be downloaded.

## RESEARCH WORK

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### • Evaluating the Efficacy of GAN-Generated Synthetic Medical Images in Enhancing Deep Learning -Based Diagnosis of Rare Diseases

Domain: Medical Fields: Deep Learning, Image Processing

September 2023 - Present

Supervisor: Md. Tawhid Anwar

Senior Lecturer, BRAC University

Co-supervisor: Md. Sabbir Ahmed

Lecturer, BRAC University

### • Survey on Review Papers

Fields: Machine Learning, Artificial Intelligence

October 2024 - Present

Supervisor: Md. Sabbir Ahmed

Lecturer, BRAC University

## HONORS AND AWARDS

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### • Participation Certification - Database Wizard of BUCC IntraHactive 1.0

2024

BRAC University



- For participating in the final round of Database Wizard segment of BUCC IntraHactive 1.0

### • All Girls Best Team - Intra University Programming Contest (IUPC), 2022

2022

BRAC University

- For performing best in the Intra University Programming Contest (IUPC), 2022

### • AHZ Awards

2021

AHZ Associates

- For acquiring 2 As in May 2020 EDEXCEL IAL examinations

### • A'Level Merit Based Scholarship

June 2018 - January 2021

Maple Leaf International School

- 50% scholarship in A'Level for acquiring 6 A\*s in IGCSE

### • Pearson Edexcel Excellence Awards

2019

Pearson Edexcel

- For acquiring 6A\*s & 3As in May 2018 EDEXCEL IGCSE examinations

### • The Daily Star Awards

2019

The Daily Star

- For acquiring 6A\*s & 3As in May 2018 EDEXCEL IGCSE examinations

### • The Daily Sun Awards

2019

The Daily Sun

- For acquiring 6A\*s & 3As in May 2018 EDEXCEL IGCSE examinations

## VOLUNTEER EXPERIENCE

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- **BRACU Fall'24 Admission Test Volunteer**

*September 2024*

*Volunteer*

- Volunteered aspiring candidates and their parents
- Provided them with all the necessary informations.
- Assisted the guards in maintaining the crowd at the front gate.