# ABRAR HASAN

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## Objective

I am an experienced Lecturer and Program Coordinator with teaching and academic leadership experience at Daffodil International University and Green University of Bangladesh. I am passionate about creating an engaging learning environment and helping students achieve academic and personal growth. Beyond academics, I have served as President of the KUET Debating Society, where I developed strong leadership and public speaking skills, and I actively manage an educational YouTube channel to make learning accessible and enjoyable. With a commitment to student success and academic excellence, I aim to contribute meaningfully to shaping future professionals and advancing the academic community.

## Education

**MSc. in Computer Science and Engineering**
Bangladesh University of Engineering & Technology (BUET)
2024-Current

**BSc. in Computer Science and Engineering**
Khulna University of Engineering & Technology (KUET)
**CGPA: 3.64 out of 4.00**
2019-2024

**Higher Secondary School Certificate (HSC)**
Notre Dame College, Dhaka
GPA: **5.00** out of 5.00
2016-2018

**Secondary School Certificate (SSC)**
Dinajpur Zila School, Dinajpur
GPA: **5.00** out of 5.00
2014-2016

## Publications

**Journal:**
"A Lightweight Cryptographic Framework Based on Hybrid Cellular Automata for IoT Applications." IEEE Access, vol. 12, pp. 192672-192688, 2024, doi: 10.1109/ACCESS.2024.3519673

**Abrar Hasan**, M.M.A. Hashem

## Teaching Experience

1. Lecturer,
Dept. of Software Engineering
**Green University of Bangladesh**
September,2024 - Current

2. Lecturer (Contractual)
Dept. of Software Engineering
**Daffodil International University**
July,2024 – September,2024

## Administrative Experience

**Program Co-Ordinator**
Dept. of Software Engineering
Green University of Bangladesh
September,2024 - Current

## Scholarships & Awards

**Dean's Award**
Dean's award from The Honorable Dean of Faculty of Electrical and Electronic Engineering (EEE), KUET for excellent results.

2022

**Dean's Award**
Dean's award from The Honorable Dean of Faculty of Electrical and Electronic Engineering (EEE), KUET for excellent results.

2021

**Dean's Award**
Dean's award from The Honorable Dean of Faculty of Electrical and Electronic Engineering (EEE), KUET for excellent results.

2020

**Champion**
**Freshers League 2019**
Freshers' League is one of the most prestigious tournaments arranged by KUET Debating Society.

2019

**Government Scholarship, HSC**
Government Scholarship in HSC examination is awarded for Excellent result.

2018

**Government Scholarship, SSC**
Talent-pool Scholarship the SSC examination is awarded for Excellent result.

2016

**Regional Champion,**
**Anti-Corruption Commission – Bangladesh Debate**
Anticorruption debate is a prestigious debate organized by Anti-Corruption Commission I participated from Dinajpur Zila School Team 1 and became champion.

2015

## Quarterfinalist
**Bangladesh Television Interschool Debate**
I participated the competition from Dinajpur Zila School Debate Team -1 and qualified for the quarterfinals among the teams across the country.

2015

## Thesis

A Study on Lightweight Cryptography Framework Based on Cellular Automata for IoT Applications.

## Academic Project

**Safe Road**                                                          **YOLOv4 | Android Application**
This is a two-part project. An Android app is utilized in the first section for monitoring, route adjustment, and vehicle tracking. A traffic sign detector trained with YoloV4 makes up the second portion.

**Modified Checkers Game**                                     **Python | AI | Minmax Algorithm**
An AI based multiplayer game. Build with Pygame framework and minmax algorithm.

**Mini Compiler**                                                                        **Flex | Bison| C**
A compiler designed to transform a custom language code into C program and execute it.

**Tuition Finder**                                                                              **Swift | IOS**
An IOS application for the students and teachers for finding a tutor and apply for tuition.

**Stock Database**                                                                  **Oracle | Database**
Developed a stock market database project using Oracle 10G Express Edition. Implemented several SQL queries for finding information. For example, analyzing maximum price holdings, profits, losses, and owner information etc.

**Cardiac Recorder**                                                      **Android | Java| Firebase**

Cardiac Recorder is a simple, useful and user-friendly android application to monitor a person's heart rate, BMI and blood pressure

**[Railway Station Design](#)**                                                             **Graphics | OpenGL 3.3**
A model rail station was designed using OpenGL 3.3.

**[Water level Detector and Automatic Irrigation Tools](#)**                 **Arduino | Sensor**
This project is made with Sensors, Motors and Arduino to make an automated system for Irrigation and auto water tank filling.

**[Stock Value Finder](#)**                                                                      **Android | Java**
This application was developed in android Studio Platform to fetch stock price of renowned companies.

## Language Proficiency

proficient in **Bangla** and **English**

## Extra-Curricular Activities

**President**                                                                                                2023-2024
**KUET Debating Society**
Organized many workshops, intra-university and national tournaments **(KUET IV 2023)** for the university level students.

**President**                                                                                                2015-2016
**Science Club, Dinajpur Zila School**
Organized science fairs, Training sessions and workshops.

**General Secretary**                                                                                   2015-2016
**Debate Club, Dinajpur Zila School**
Was active in both Debate and Organizing sessions and workshops.

**General Secretary**                                                                                   2015-2016
**Debate Club, Dinajpur Zila School**
Organized various sessions, workshops.

## Competitive Programming

[CODEFORCES](#)                        Solved 364 problems with 1024 contest rating.

## Reference

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