

# TASNIM MAHFUZ NAFIS

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## EDUCATION

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2022 - Present	<b>UNIVERSITY OF DHAKA</b> Institute of Information Technology(IIT) BSc. in Software Engineering. CGPA-3.75 (As of Semester 4)
2018 - 2020	<b>SARA MARWARI MODEL SCHOOL AND COLLEGE, ISHWARDI, PABNA</b> Higher Secondary Certificate(HSC)   GPA- 5.00 (With Scholarship)
2013 - 2018	<b>IKKSHU GABESHAWANA HIGH SCHOOL, ISHWARDI, PABNA</b> Secondary School Certificate(SSC)   GPA-5.00 (With Scholarship)

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## FIELDS OF INTEREST

Competitive Programming, Mathematical Problem Solving, Machine Learning and Data Science, Web Development, Literature.

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## SELECTED COURSES TAKEN

Discrete Mathematics, Data Structure and Algorithm, Object Oriented Concepts, Database Management System, Theory of Computing, Computer Networking, Software Requirements Specification and Analysis, Web Technology, Design Patterns, Operating System and System Programming, Information Security, Numerical Analysis, Probability and Statistics, Calculus and Analytic Geometry, Ordinary Differential Equations, Sociology.

## PROJECTS AND COCURRICULAR ACTIVITIES

### 1. Client-Server Chat Interface with C++

- No use of any pre-built framework
- Raw AES(Advanced Encryption Standard) algorithm implementation for data security
- Raw Huffman Compression-Decompression algorithm for efficient data transmission
- Link: [client server chat](#)

### 2. Employee Efficiency Detection from Live CCtv Footage (Ongoing)

- Use of Computer Vision to Detect Region of Interest
- Use of Skin Detection Algorithm
- Use of Kalman Filter Algorithm for Hand Movement Tracking

### 3. Active Participation in Dhaka University Competitive Programming Community.

- Codeforces Link: [Codeforces Nafis](#)
- Vjudge Link: [Vjudge Nafis](#)
- LightOj Link: [Lightoj Nafis](#)

- CSES Link: [CSES Nafis](#)
  - Leetcode Link: [Leetcode Nafis](#)
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## EXTRACURRICULAR ACTIVITIES

1. **Durbin - Dur Bishwer Nagorik (Citizens of the universe)** (March 2023 - Present)
  - An astronomy outreach program funded by the University of Toronto and Independent University Bangladesh, IUB.
  - One of the 16 National Organizers and Volunteers of Durbin
  - Organized 3 Outreach Events in Dhaka, Chattogram and Ishwardi
  - Captured Galaxies, Nebula, Planets and Stars in nightlong astrophotography ventures
  - Durbin Site Link: [Durbin Nafis](#)
2. **Prothom Alo Online Tech Desk** - Contributor ( August 2023 - Present)
  - Have written more than 30 Tech Reports
  - Sample Report Link: [Report on Freelance Conference 2023](#)
3. **Dhaka University Film Society** - General Member ( 2022 - Present)
  - Volunteered in organizing Amar Bhashar Choloচিত্র - 1428 and 1429 (in 2022 and 2023)
  - Volunteered in organizing the International Inter University Short Film Festival (IIUSF) in 2022
  - Participated in Film Circles

## Skills

- **Front End:** HTML, CSS, JavaScript, Tailwind, ReactJs
- **Back End:** NodeJs, Sqlite3
- **Language:** C, C++, Java, Python

## Reference:

### 1. Dr. Khan M. B. Asad

Assistant Professor, Astronomy and Astrophysics  
Independent University Bangladesh, IUB  
Email: [kasad@iub.edu.bd](mailto:kasad@iub.edu.bd)

### 2. Dr. Ahmedul Kabir

Associate Professor  
Institute of Information Technology, University of Dhaka  
Email: [kabir@iit.du.ac.bd](mailto:kabir@iit.du.ac.bd)