MD. MARUF HASAN

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Career Objective

Computer Science & Engineering graduate with extensive university-level teaching assistant experience across computer science, mathematics, and interdisciplinary courses. Seeking a fully funded Master's program to strengthen academic and research expertise, with the long-term goal of contributing to higher education through university teaching and scholarly research.

Work Experiences

Graduate Teaching Assistant - Department of Mathematics & Physical Sciences,   Oct 2025 – Present
East West University, Dhaka, Bangladesh
Assisting students in CHE109: Engineering Chemistry-I. Supporting lab experiments, ensuring proper procedure and safety. Helping students overcome conceptual problems.

Undergraduate Teaching Assistant - Department of Computer Science & Engineering,   Oct 2024 – Sep 2025
East West University, Dhaka, Bangladesh
Supported courses: CSE106-Discrete Mathematics, CSE200-Computer Aided Engineering Drawing, CSE37-Information System Analysis & Design, CSE405-Computer Networks, CSE479-Web Programming
Responsibilities: Conducted lab sessions and provided conceptual support and doubt-clearing sessions.

Undergraduate Teaching Assistant - Department of Mathematics & Physical Sciences,   Jan 2024 – Sep 2024
East West University, Dhaka, Bangladesh
Assisted in the following courses: MAT101-Differential & Integral Calculus, MAT102-Differential Equations & Special Functions, MAT10-Coordinate Geometry & Vector Analysis.

Undergraduate Teaching Assistant - Department of Social Relations,   Oct 2023 – Dec 2023
East West University, Dhaka, Bangladesh
- Assisted in GEN226: Emergence of Bangladesh.
- Supported students with assignments, exam preparation, and conceptual clarity.

Hostel Super & In-Charge (Evening Shift),   Jan 2024 – Present
Hoque Boys Hostel of Dhaka Imperial College, Aftabnagar, Dhaka -1212
- Ensured discipline and provided academic guidance during study hours.
- Provided technical and administrative support to hostel management.

Education

Bachelor of Science (B.Sc.) in Computer Science & Engineering (Software Major),   2025
East West University, Dhaka, Bangladesh   Dhaka, Bangladesh
CGPA: 3.83/4.00

Higher Secondary Certificate (HSC) (Science), *Shahid Buddhijibi Government College, Rajshahi*   2019
GPA: 5.00   Rajshahi, Bangladesh

Secondary School Certificate (SSC), *Rajshahi Government Shikkha Board Model School & College*   2017
GPA: 5.00   Rajshahi, Bangladesh

Scholarships & Academic Honors

Medha Lalon Fund Scholarship, *East West University, Dhaka, Bangladesh*
For Concequtive 3 Semester: Fall'22, Spring'23 & Summer'23

Full Free Merit & Dean's List Scholarship, *East West University, Dhaka, Bangladesh*
For Consecutive 2 years:
Fall'23, Spring'24, Summer'24
& Fall'24, Spring'25, Summer'25

Research Experience

FoodBridge Bangladesh - A Technology Solution for Reducing Food Waste,
Undergraduate Final Year Capstone Project (Completed, Awaiting Conference Submission)
- Developed a platform connecting food donors with beneficiaries.
- Implemented real-time donation tracking and distribution monitoring.
Created scalable architecture for community-based food redistribution.

- Combined software engineering with social impact research.

Carbon-Conscious NLP Model Selection, *(Participated in the research work, not published yet)*
- Researched sustainable NLP model selection based on carbon footprint analysis.
- Explored green computing approaches in machine learning.
- Evaluated environmental impact across multiple NLP models.

Technical Skills

Programming Languages
C, C++, Java, Python

Web Technologies
HTML, CSS, JavaScript, PHP, MySQL

Mobile Development
Android Studio (Java)

Tools & Software
AutoCAD, MS Office (Word, Excel, PowerPoint), Cisco Packet Tracer

Database
MySQL

Academic Projects

ManPower Supply Mobile App, *Android Studio, Java, SQLite*
- Recruitment & manpower management app.

E-Commerce System, *PHP, HTML, CSS, MySQL*
- Includes cart, payment module, admin dashboard.

Enterprise Network System Design, *Cisco Packet Tracer*
-Routing, switching, security protocols.

Binary Search in 8086 Assembly, *EMU8086*
-Low-level algorithm implementation.

Travelling Salesman Problem Solver, *C++*
- Greedy & dynamic programming approaches.

Classic Concurrency Problem (Sandwich Problem), *C, Multithreading*
-Synchronization & deadlock prevention.

Restaurant Management System, *Java (OOP)*
- Menu, order, and user management.

Queue Simulator, *C Programming*

Floor Planning, *AutoCAD*

Age Prediction of Abalone (Regression Project), *Python, Statistics*

IoT-based Real-Time Energy Monitoring Dashboard, *Green Computing Project*

Provenance-Enabled University Equipment Rental System, *Web App + Advanced DB Design.*

Languages

Bangla
Native

English
Fluent

Areas of Interest

- Web Technologies
- Mobile App Development
- Cybersecurity
- Artificial Intelligence
- Machine Learning
- Educational Technology
- Green Computing
- Social Impact Technology
- University-Level Teaching & Mentoring