

Mohammad Sadat Hossain

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📍 Dhaka, Bangladesh

Education

Bangladesh University of Engineering & Technology (BUET)

Bachelor of Science in Computer Science and Engineering

Mar 2020 – Mar 2025

Dhaka, Bangladesh

- CGPA: **3.99/4.00** | Class Rank: **2nd out of 120 students**
- **Dean's List Award** | Received in all three academic years awarded (2021–2023)
- **University Merit Scholarship** | Achieved in all seven terms attended (2020–2023)

Professional Experience

Bangladesh University of Engineering & Technology

Lecturer, Dept. of Computer Science and Engineering

Nov 2025 – Present

Dhaka, Bangladesh

- Teaching undergraduate courses in the Department of Computer Science and Engineering
- Conducting lab sessions and mentoring students in coursework and research projects

Bangladesh University of Engineering & Technology

Adjunct Lecturer, Dept. of Computer Science and Engineering

Apr 2025 – Nov 2025

Dhaka, Bangladesh

- Instructed approximately 360 students across 6 courses including programming and data structures
- Designed and evaluated assignments, exams, and lab assessments

Research

From MSA Transformer to Graph Neural Network: A Deep Learning Approach to Phylogenetics

Undergraduate Thesis / Supervisor: Dr. Md. Shamsuzzoha Bayzid

- Designed novel deep learning architectures combining MSA Transformer and Graph Neural Networks to capture evolutionary relationships from multiple sequence alignments
- Developed end-to-end pipeline for phylogenetic tree reconstruction with improved accuracy over traditional methods

Selected Projects

TaskFlow | AI-Powered Task Management Platform

Feb 2024

Full-Stack Web Application

[GitHub](#) | [Demo](#)

- Built comprehensive task planner with AI assistant for intelligent content generation and task suggestions
- Implemented real-time collaboration features with progress tracking using SvelteKit, Express.js, and PostgreSQL

ExploreMate | Travel Planning Application

Oct 2023

Full-Stack Web Application

[GitHub](#) | [Demo](#)

- Architected travel suggestion system with intelligent itinerary planning and destination recommendations
- Designed system using BPMN, ER, UML diagrams; implemented with SvelteKit and Express.js

Harmony | Academic Social Media Platform

Sep 2022

Full-Stack Web Application

[GitHub](#)

- Developed real-time learning resource management platform with chat, file sharing, and event management
- Built with Svelte, TailwindCSS frontend and PostgreSQL with PL/pgSQL for complex database transactions

Football Club Manager

Jul 2021

Desktop Application

[GitHub](#) | [Demo](#)

- Created JavaFX application with multithreaded socket programming for real-time server-client communication
- Web scraped and indexed 16,000+ player profiles with searchable database and live player exchange features

Technical Skills

Languages

C, C++, Python, Java, JavaScript, TypeScript, Bash, SQL, 8086 Assembly

ML/AI

PyTorch, Scikit-learn, Hugging Face Transformers, vLLM, Computer Vision, NLP

Web Development

SvelteKit, Express.js, Node.js, TailwindCSS, REST APIs

Databases

PostgreSQL, Oracle, PL/pgSQL, Database Design and Optimization

Tools & DevOps

Git, Docker, Linux, LaTeX, Beamer, Wazuh SIEM

Achievements

24th Place	ICPC Asia Dhaka Regional Contest (310 teams)	2024
Finalist	Robi Datathon 2024	2024
Champion	Hackathon (DevOps), BUET CSE Fest	2023
15th Place	Inter University Programming Contest, BUET CSE Fest (105 teams)	2023
4th Place	AI Contest, BUET CSE Fest	2022
2nd Runners Up	NASA Space Apps Challenge, Dhaka Region	2021