

# SAGOR AHMED

Dhaka, Bangladesh

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## EDUCATION

### East West University

B.Sc in Computer Science & Engineering

Dhaka, Bangladesh

Sep 2021 – Sep 2025

- Relevant Coursework: Structured Programming, Object Oriented Programming, Data Structures and Algorithms, Networking, Operating Systems

## TECHNICAL SKILLS

**Languages:** C, C++, C#, Java, SQL

**Backend & Frameworks:** .NET 9, ASP.NET Core, RESTful APIs, Entity Framework, MVC Architecture

**Frontend:** HTML, CSS

**Databases & DevOps:** PostgreSQL, Microsoft SQL Server, Docker, Git/GitHub

**Core Competencies:** Data Structures & Algorithms, OOP, Database Design, System Architecture

**Problem Solving:** Solved 2500+ algorithmic problems (Codeforces Specialist, CodeChef 4-Star)

## PROFESSIONAL EXPERIENCE

### Brain Station 23 PLC

Software Engineer Trainee

Dhaka, Bangladesh

Aug 2025 – Dec 2025

- Developed scalable backend services using **C#** and **.NET**, integrating essential modules into enterprise-grade software solutions.
- Optimized **SQL** database schemas and implemented **Docker** containerization to streamline deployment workflows.
- Maintained code integrity using **Git** for version control and participated in peer reviews to enforce industry best practices.

### East West University

Competitive Programming Trainer

Dhaka, Bangladesh

Mar 2024 – Present

- Instructing students on advanced concepts of data structures, algorithms, and complex problem-solving techniques
- Mentoring teams for national contests and conducting regular practice contests to improve student performance

## PROJECTS

### BrainHub (Enterprise Web Application) ↗ | .NET 9, Docker, PostgreSQL

Dec 2025

- Designed a scalable **Layer Architecture** separating business logic from data access, ensuring clean code, testability, and long-term maintainability.
- Implemented secure **Role-Based Access Control (RBAC)**, along with **xUnit** tests to validate business logic and user permission flows.
- Deployed the application using **Docker** containers and integrated **PostgreSQL** via Entity Framework Core, ensuring consistent runtime behavior across environments.

### Phone Book Library | C++, Pointers, Algorithms

Completed

- Engineered a **Singly Linked List** system using raw C++ pointers to manage dynamic memory allocation and custom file persistence.
- Implemented **O(n²)** **Bubble Sort algorithm** to auto-sort contact records in real-time without external libraries.

## COMPETITIVE PROGRAMMING & ACHIEVEMENTS

### International & National Contests:

ICPC Dhaka Regional 2024 Preliminary: **10th** (out of 2500+ teams)

ICPC Dhaka Regional 2024 (Onsite): **25th** (309+ teams)

ICPC Asia West Championship 2024-25: **59th** (62 teams)

BUET IUPC 2024: **11th** Rank | UIU IUPC 2025: **16th** (160 teams) | UU IUPC 2025: **26th** Rank

SRBD Code Contest 2024: **46th** (Round 1)

Meta Hacker Cup 2024: **7,278th** (Round 1)

### Online Judge Ratings:

**Codeforces:** Specialist (Max Rating: 1563) | **CodeChef:** 4-Star (Max Rating: 1835) | **AtCoder:** (Max Rating: 912)