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EDUCATION

East West University

Dhaka, Bangladesh

B.Sc in Computer Science & Engineering

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

Dhaka, Bangladesh

Software Engineer Trainee

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

Dhaka, Bangladesh

Competitive Programming Trainer

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)