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PROFILE

Computer Science and Engineering undergraduate (3rd year) with a strong foundation in Data Structures, Algorithms, and System Design. Active competitive programmer with over 1,000 problems solved. Currently leveraging Python skills to build competency in Machine Learning and Data Science.

EDUCATION

Bachelor of Science in Computer Science and Engineering (B.Sc.) Expected 2027
Daffodil International University, Dhaka, Bangladesh

Relevant Coursework:

- Data Structures & Algorithms
- Database Management Systems
- Compiler Design
- Object Oriented Programming
- Structured Programming (Problem Solving)

Higher Secondary Certificate (HSC) 2021
Nawab Siraj-Ud-Dowla Government College GPA: 5.00 / 5.00

Secondary School Certificate (SSC) 2019
Natore Sugar Mills High School GPA: 5.00 / 5.00

TECHNICAL SKILLS

- **Languages:** C, C++ (STL), Java, Python, SQL
- **Data Science & ML Libraries:** NumPy, Pandas, Matplotlib
- **Core Concepts:** Data Structures (Arrays, Graphs, Trees), Algorithms (DP, Searching), OOP, DBMS
- **Tools:** Git, GitHub, VS Code

PROJECTS

KrishiSheba – Agricultural Equipment Rental System

Technologies: Java, MySQL, JDBC

- Architected a rental marketplace connecting farmers with equipment owners, addressing local supply chain gaps.
- Designed the relational database schema to manage equipment inventory, user roles, and booking transactions.
- Implemented Object-Oriented principles to ensure modularity and ease of future maintenance.

Student Management System

Technologies: C++, File Handling

- Built a desktop application to manage academic records using low-level file operations for data persistence.
- Implemented custom sorting and searching algorithms to retrieve student data efficiently.

ACHIEVEMENTS & PROBLEM SOLVING

- **1,000+ Problems Solved:** Active on Codeforces and LeetCode, specializing in C++ and Python.
- **Algorithmic Depth:** Proficient in Graph Traversal (BFS/DFS), Dynamic Programming, and Number Theory.
- **Optimization:** Skilled in optimizing code for time and memory complexity limits.

SOFT SKILLS

- Analytical Thinking
- Time Management
- Team Collaboration
- Adaptability