

MD. KHAYRUL ISLAM SAJIB

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EDUCATION

UNIVERSITY OF DHAKA

Bachelor of Science in Software Engineering
CGPA : **3.24/4.00** (up to 2nd semester)

Dhaka, Bangladesh-1000
Expected Graduation Dec 2027

PROJECTS

DHAKA CITY MAP | C++

Feb 2025

- The project is a C++ program design to read geographical data from CSV files, calculate the shortest path between two points using Dijkstra's algorithm and generate a KML file to visualize the route.
- Overall, the program combines files I/O, graph algorithm and geographical calculations to provide a comprehensive solution for route planning visualization.

SPL1- IMAGE PROCESSING | C++

Jan 2025

- This project highlights image manipulate, including reading, displaying and exporting images.
- The functions include operations like negative, grayscale, brightening, darkening, flipping, smoothing, sharpening, Gaussian blur, Sobel edge detection, angle calculation and histogram equalization.

PRODUCT HIERARCHY | JAVA, OOP

Nov 2024

- This project build on well-structured Java using OOP principles that manages an inventory of products using inheritance, method overriding and efficient search functionalities.

FILE COMPRESSOR DECOMPRESSOR | C

Dec 2024

- Compression** – Reads a file, applies an algorithm (e.g., Huffman) to reduce size, and saves the compressed file.
- Decompression** – Reads the compressed file, reverses the algorithm, and restores the original data.

AWARDS

3rd (Out of 500+) at Inter University IT Olympiad (Senior Category) (CSE FEST 2024, EWU)

ACTIVITIES

COMPETITIVE PROGRAMMING

Tutor

- Have been guiding the students of the first year who are struggling with basic coding and DSA.
- Have taken weekly DSA classes & sessions and hosted intra-weekly and Biweekly Contests. (IIT,DU)

ADDITIONAL

Technical Skills: C, C++, Java, DSA, OOP.

Problem Solving: Solve 150+ problems & participated 30+ contest on [CODEFORCES](#), [LEETCODE](#), [ATCODER](#).