**MD. KHAYRUL ISLAM SAJIB**

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EDUCATION

**UNIVERSITY OF DHAKA** Dhaka, Bangladesh-1000

Bachelor of Science in Software Engineering Expected Graduation Dec 2027

CGPA : **3.24/4.00** (up to 2nd semester)

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](https://codeforces.com/profile/Sajib_bhuiyan00), [LEETCODE](https://leetcode.com/u/sajib_bhuiyan00/), [ATCODER](https://atcoder.jp/users/Sajib_bhuiyan00).