# MD. KHAYRUL ISLAM SAJIB

Dhaka, Bangladesh | +8801824534933 | Email | GitHub | LinkedIn

## 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)

## EXPERIENCE

**Home Tutor**
📅 01/2021 - Present 📍 Dhaka, Bangladesh-1000

- Personalized home education programs for 20+ students, which improved learner outcomes by an average of 90%.
- Implemented creative learning techniques for students with different learning abilities, significantly raising their engagement..

## 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.