

# MD. KHAYRUL ISLAM SAJIB

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## EDUCATION

### Bachelor of Science in Software Engineering (BSSE)

Expected Graduation - 2027

#### Institute of Information Technology (IIT)

University of Dhaka

CGPA : **3.22/4.00** (up to 3<sup>rd</sup> semester)

### Higher Secondary Certificate (HSC)

2021

Rangpur Govt. City College, Rangpur

GPA: 5.00/5.00

### Secondary School Certificate (SSC)

2019

Al-Falah Institute, Rangpur

GPA: 5.00/5.00

## PROJECTS

### SPL2- BACHELOR HOUSE RENT SYSTEM | HTML, CSS, JS, PHP, Python, SQL

(Ongoing)

The "Bachelor House Rent System" is a dedicated web application designed to connect landlords who are willing to rent to bachelors with prospective bachelor tenants.

Feature: User management, Searching Filter, Property details, Communication, Map view, Roommates finder, AI Chatbot, Social media integration etc.

### POINT of SALE | DESIGN PATTERN | JAVA, JAVA FX

Sep 2025

Developed a desktop App for super shop management which allows managing products, orders, view stock, and handle data applying design patterns such as **Memento, Singleton, Observer, Command, Bridge, and Strategy**.

### DHAKA CITY MAP | C++ ([github](#))

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++ ([github](#))

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.

## AWARDS

3<sup>rd</sup> (Out of 500+) at Inter University IT Olympiad (Senior Category)

(CSE FEST 2024, EWU)

## ACTIVITIES

### COMPETITIVE PROGRAMMING

Solve 200+ problems & participated 50+ contest on [CODEFORCES](#), [LEETCODE](#), [ATCODER](#).

- Have been guiding the students of the first year who are struggling with basic coding and DSA.

## SKILLS

**Language:** C, C++, Java, Python.

**Web Development:** HTML, CSS, JavaScript, PHP

**Database:** Oracle, SQL, MySQL.

## REFERENCES

### Ahmedul Kabir

Associate Professor, IIT

University of Dhaka

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### Professor Dr B M Mainul Hossain

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