

# Sovon Mallick

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## EDUCATION

### Jahangirnagar University

BSc in Computer Science and Engineering (CGPA: 3.7)

2020 – 2025

Dhaka, Bangladesh

### Dhaka Residential Model College

Higher Secondary Certificate (GPA: 5.00)

2017 – 2019

Dhaka, Bangladesh

### Khulna Public College

Secondary School Certificate (GPA: 5.00)

2015 – 2017

Khulna, Bangladesh

## TECHNICAL SKILLS

**Programming Languages:** Java, C/C++, Python

**Frameworks & Libraries:** React, Node.js, Flutter

**Tools:** Git, Docker, Android Studio, VS Code, IntelliJ, PyCharm

**Concepts:** OOP, UML, Data Structures, Algorithms

**Operating Systems:** Windows, Debian, Ubuntu, Kali Linux

## EXPERIENCE

### Team Lead

National Disaster Response System

Aug 2024 – Present

GitHub Repository

Led the development of a disaster response system using Agile methodologies, coordinating six developers.

Enforced coding standards and conducted regular code reviews to ensure high-quality deliverables.

### Mentor

Dept. of CSE, Jahangirnagar University

Aug 2024 – Present

Guided junior students in mastering Git, IDEs, and software development best practices.

Coached mentees on research methodologies, including literature review and experiment design.

Organized weekly workshops and one-on-one sessions to track progress and address challenges.

## PROJECTS

### GSM-based Smart Door Lock

Embedded IoT Project

Feb 2025 – Apr 2025

GitHub Repository

Designed an ESP32-based door lock controllable via GSM calls from registered numbers.

Integrated a 4x4 keypad for PIN entry, I2C LCD for status display, and SD card logging of call records.

Developed admin interface for adding/removing authorized numbers and updating access credentials.

### Smart City Monitor

IoT System Development

Mar 2025 – May 2025

GitHub Repository

Developed an ESP32-based environmental monitoring system (temperature, humidity, gas concentration, distance).

Integrated DHT11, MQ-series gas sensor, ultrasonic sensor, and OLED display with SD card data logging.

Enabled real-time cloud visualization via ThingSpeak and Blynk dashboards for urban safety alerts.

### ReadRover Mobile App

Mobile App Development

Sep 2024 – Nov 2024

GitHub Repository

Developed a Flutter-based app for digital book catalog browsing with Firebase integration.

Implemented borrowing/reservation features and real-time GPS tracking of library locations.

### Network File System Web UI

Flask & Python

Apr 2025 – Jun 2025

GitHub Repository

Built a Flask-based web interface to manage NFS shares, including file upload, download, and directory browsing.

Implemented JSON-based authentication with hashed passwords, password reset, and admin user deletion.

Added file size restrictions and global usage statistics for enhanced security and monitoring.

### Smart Apartment System

*OOAD Project*

Jun 2023 – Dec 2023

*Jahangirnagar University*

Designed an apartment management solution using Object-Oriented Analysis and Design principles.

Created comprehensive UML diagrams (use case, class, sequence) and detailed system models.

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## CERTIFICATIONS & ACHIEVEMENTS

**Responsive Web Design Certification** – FreeCodeCamp

**JavaScript Algorithms & Data Structures Certification** – FreeCodeCamp

Finalist in **2nd Bangladesh Linguistic Olympiad** (National Level)

Participant in **Bangladesh Mathematical Olympiad**

Completed **Machine Learning Course** on Coursera

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## EXTRACURRICULAR ACTIVITIES

Hosted **National Collegiate Programming Contest 2023**, coordinating 120+ participants and managing problem-set logistics.

Active member of the **English Debate Club**, competing in 8 inter-university debates and earning *Best Speaker* at Dhaka Debate Forum 2022.

Served as **Class Representative**, liaising between 60+ students and faculty to organize workshops and improve feedback processes.

Senior Patrol Leader at **Bangladesh Scout Jamboree**, leading 15 scouts to a 2nd-place finish among 25 contingents.

Campus Ambassador for **Bohubrihi**, driving a 30% sign-up increase through 5+ demo sessions to 200+ students.