



## Trisha Sarkar

B.Sc Honours

CSE

Jahangirnagar University,  
Savar, Dhaka

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### SUMMARY

- As a dedicated Computer Science graduate, I want to apply my academic knowledge and teaching skills in a renowned university. I am committed to delivering quality education, promoting student engagement, and contributing to the academic community.

### EDUCATION

- **Jahangirnagar University** 2020-2025  
B.Sc 3.92/Percentage: 98.00
- **Kafiluddin University College** 2018  
H.S.C, Lakshmipur 4.67/Percentage: 93.40
- **Pratapganj High School** 2016  
S.S.C, Lakshmipur 5.00/Percentage: 100

### RELEVANT COURSEWORK

- |                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| • Machine Learning        | • Software Engineering       | • Computer Architecture      |
| • Artificial Intelligence | • Software Quality Assurance | • Bioinformatics             |
| • Data Structures         | • Discrete Math              | • Human Computer Interaction |
| • Algorithm Analysis      | • Digital Logic Design       | • Computer Network           |
| • Operating Systems       | • Computational Geometry     | • Wireless Network           |

### PERSONAL PROJECTS

- **Smart Class Routine Management System** 14-11-2024  
*Web Based Project which optimizes and manages class schedules efficiently*
  - Tools & technologies used: **HTML5, CSS, JavaScript, Bootstrap, React, Node.js, MySQL, Git, JSDoc, Github Action, Mocha, Chai, Trello, Toggl, Discord**
  - Efficiently manage and optimize class schedules with features like filtering, rescheduling, and academic calendar integration.(Dynamic Class Scheduling Platform)
  - Prepared **Documentation, Wiki reports and SRS**
  - Managed the project works with Trello, maintain time scheduling with Toggl and communicated with team members via Discord
  - Implemented **TDD, CI/CD, Github Actions, Agile Scrums and Meeting Retrospectives for project efficiency.**
  - Github location: <https://github.com/JUCSE49-Mavericks/Smart-Class-Routine-Management-System/wiki>
- **CSEmentor** 10-10-2024  
*A Mobile App for Computer Science Students to enhance Learning(Course Information, User Information)*
  - Tools & technologies used: **Android Studio, Git, Java, Firebase**
  - Offer personalized learning resources, guidance, and mentorship for computer science students, helping them excel in their studies and career paths ( Mobile App Based Learning Platform)
  - Authentication **implemented by Firebase Realtime Database.**
  - Github location: <https://github.com/TrishaSarkar174/CSEmentorLearningApp>
- **IOT Based Smart Street Lighting with Solar Charging** 22-05-2025  
*A team project on IoT-based smart street lighting with solar charging.*
  - Tools & technologies used: **NodeMCU ESP8266, Arduino IDE, Blynk App, LDR, IR Sensor, Temperature Sensor, Current Sensor, Solar Panel**
  - Developed an **IoT-based smart street lighting system powered by solar energy** that adjusts brightness based on motion and ambient light, with real-time monitoring and control via Blynk app and web dashboard.
  - Github location: <https://github.com/Sa-dia/Smart-Street-Lighting-System>
- **Fire Fighting Car using Arduino** 13-03-2024  
*An Arduino car which detects fire nearby and Turn out fire using water from water tank*
  - Tools & technologies used: **Arduino**

TECHNICAL SKILLS AND INTERESTS

**Programming Languages:** C, C++, JAVA, Python  
**Developer Tools:** Visual Studio, Android Studio  
**Version Control Systems:** Git  
**CI/CD**  
**Cloud/Databases:** SQL, MySQL  
**Soft Skills:** Patience, Creativity, Time Management, Communication, Problem Solving  
**Software Tools:** Xampp, Code::block, Slack, Trello, Toggl, Discord, Overleaf, Visual Paradigm, Draw.io, Matlab  
**Web Development Tools:** HTML5, CSS, JavaScript  
**Areas of Interest:** Networking and Communication, Machine Learning, Artificial Intelligence

ACHIEVEMENTS

- **Certified for completion of Responsive Web Design** From FreeCodeCamp 2023
- **Certified for completion of JavaScript Algorithms and Data Structures** From FreeCodeCamp 2023
- **Certified for completion of Relational Database** From FreeCodeCamp 2024
- **Certified for completion of Scientific Computing with Python** From FreeCodeCamp 2024