





# Shudipta Majumder


Software Engineer

 <https://shudipta.space>

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## Education

- **Daffodil International University(DIU)**
  - Bachelor of Science in Computer Science & Engineering
  - CGPA: 3.21 /4.00
  - **Key Courses:** Data Structures & Algorithms, Object Oriented Programming, Database, Operating Systems, ML, Software Engineering

Dhaka, Bangladesh  
2018-2022

## Skills

Languages	Frontend	Backend	Machine Learning (AI)	Server	Problem Solving	Soft Skills
Python	React	Django	FastAPI	Nginx	Solved 300+ Problems	Presentation
JavaScript	Next JS	Node.js	Express.js	AWS	<b>URI</b> (x200)	Project Management
C++	Next Auth	PostgreSQL	MongoDB	CI/CD	<b>LeetCode</b> (x136)	Attention to Detail
Golang	Type Script	GRPC	Web Socket	Docker		Technical Writing
Bash	GSAP	RabbitMQ	GraphQL	K8S		Time Management
	Redux	System Design	Redis	Transformer		

## Professional Experiences

- **Synesis IT PLC, Kawran Bazar, Dhaka, Bangladesh**  
**Software Engineer II (Full-Stack & AI)**
  - Engineering high-performance FastAPI services powering secure and efficient cyber range applications. Creating advanced AI solutions by combining NLP and RAG for enhanced contextual understanding.

Aug 2025 - Present (3+ Yrs)

- **WALTON Group, Bashundhara R/A, Dhaka, Bangladesh**  
**Software Engineer (Full-Stack, Backend Focused)**
  - Developed Django REST APIs for a School Management System, improving backend performance and scalability, also Implemented Redis for caching and message queuing, send email and SMS sending efficiency. Integrated WebSocket using Django Channels to enable real-time communication in the system.
  - Configured Nginx for media file serving, ensuring efficient delivery of static and media content. Set up Nginx as a reverse proxy to optimize load balancing and improve application performance. Learning AWS cloud services to build scalable and secure infrastructure solutions. Applying skills in EC2, S3, Lambda, and IAM to deploy real-world cloud applications.
  - Integrated **Natural Language Processing (NLP)** techniques to analyze and process unstructured text data such as student feedback, messages, and notices, improving insights and automated categorization. Developed **semantic search and question answering** functionality using NLP + embeddings for fast and context-aware information retrieval within the school management system.

Dec 2022 - Aug 2025 (2.9+ Yrs)  
Sep 2023 - Present

- **Associate Software Engineer (Full-time)**
  - Designed and implemented component-based architecture for a School Management System using modern frontend frameworks. Developed a responsive menu, top bar, and sidebar with an intuitive UI/UX for seamless navigation. Ensured cross-browser compatibility and adherence to UI/UX best practices.
  - Implemented dark mode, light mode and system mode functionality for enhanced user experience and accessibility. Collaborated with backend developers to refine data structures, authentication, role-based access and user-based access. Contributed to key school management features, including student records, attendance tracking, payroll and staff management.

Mar 2023 - Aug 2023

- **Software Engineer Intern**
  - Collaborated with PM, UI-UX Team to contribute codes in Digitech Website Next JS and Designed a multi-module school management system

Dec 2022 - Feb 2023

## Thesis

**A Predictive Model To Detect Online Cyber Bullying By Using Machine Learning.**

The ultimate goal is to create a tool that can assist social media companies, online communities, and educators in identifying and preventing harmful online behavior, fostering a safer and more positive digital environment.

## Personal Projects

**Real Time Messaging system**

This project creates a real-time messaging application using Node.js, raw WebSockets, and React. Node.js handles the backend WebSocket server to manage message exchanges between clients,

**Detect and Recognition object by using Machine Learning (CNN)**

This research project utilizes machine learning to automatically detect and recognize objects in real-time through given user classes data.

## References

**Md. Galib Ibn-Kibria**

Senior Additional Executive Director, ICT, Walton Hi-Tech Industries PLC.

**Engr. Md. Ahsan Habib Tapader**

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