

# Md. Abed Afnan

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## EDUCATION

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### B. Sc. In Computer Science & Engineering

2021 – 2025

*International Islamic University of Chittagong, Bangladesh*

CGPA: 3.70

## TECHNICAL SKILLS

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**Languages:** JavaScript, Python, SQL.

**Web Tools & Frameworks:** HTML, CSS, Tailwind, ReactJS, NextJS, NodeJS, ExpressJS, RESTapi.

**Version Control & Containerization:** Git, GitHub, Docker.

**Databases:** PostgreSQL, MongoDB.

**Networking & Tools:** OSI, TCP, HTTP, HTTPS, Wireshark.

**Architecture & Methodologies:** Client-Server Architecture, MVC, Agile (Scrum).

**Others:** MS-word, Excel, Canva, latex (basic).

## PROJECTS

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### FULL STACK WEB DEVELOPMENT (MERN/PERN)

#### 1. DOM STORE | [Live Link](#) | [Client Code](#) | [Server Code](#)

February 2024

- A simple feature-rich e-commerce site having JWT auth, social login, SSLCommerce integration, and admin/user roles. Through this project I learned about different component communication, payment gateway integration, and order process flow in a full stack website.
- Tools used *ReactJs*, *ExpressJs*, *MongoDB*, *SSLCommerz*, *PassportJs*, *Tailwind*, and *MVC Architecture*.

#### 2. DATA MANAGEMENT TABLE | [Live Link](#) | [Github](#)

April 2025

- This is a responsive data table project like TableCN with filtering, sorting, pagination, rows-per-page selection, and edit/delete actions. By this project I gained hands-on experience with UI logic complexities, such as debouncing, global state management, and state synchronization in the URL.
- Tools used *NextJs*, *ShadCN UI*, *Tailwind*, *Date-fns*.

#### 3. AYT FURNITURE | [Live Link](#) | [Client Code](#) | [Server Code](#)

August 2023

- An online furniture store with admin-focused CRUD functions built using the MERN stack. This was my university's team project where for the first time I have learned how to build a web application by using JS ecosystem called MERN stack.
- Tools used *ReactJs*, *Nodejs*, *ExpressJs*, *MongoDB*.

- 4. CULTIVIS | [Live Link](#) | [Github](#)** Present
- A full-stack web application that facilitates precision farming through community involvement, crop monitoring, advising farmers and data-driven agriculture solutions.
  - Tools used *NextJs, HonoJs, MongoDB, PostgreSQL, Shadcn ui, LeafletJs*.
- 5. ASCIIREST | [Live Link](#) | [Github](#)** July 2025
- It's an online meal search platform for restaurants. This is basically a UI focused web app which uses mealDB api to display varieties of food & categories. Users can search, filter & see random food by interacting with UI. In this project I learned to manage complex state management with Redux Toolkit & middleware.
  - Tools used *NextJs, Redux Toolkit, MealDB Api, Tailwind*.

## RESEARCH WORK

- **Comparative analysis of Gait Recognition Technologies | [Github](#)** January 2024 – June 2024

In this work, different gait recognition techniques were compared, including handcrafted and machine learning-based approaches for identifying a person. This work mostly focused on reviewing literature more than developing a solution, and that helped me gain skills in reading and writing research papers while analyzing and contrasting previous studies.
- **Alzheimer's Disease Classification | [Github](#)** July 2024 – December 2024

In this work we used deep learning models CNN & ResNET50 for the classification of Alzheimer's disease from brain MRI images. This analysis helps me to understand the complexity of image processing & feature extraction from image data. It also helped me to understand the overall architecture & working process of CNN model.

## AWARDS & CERTIFICATES

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- Full Stack Web Development with JavaScript MERN from *Bohubrihi* – Completed on March 1, 2024
- HTML5, CSS3 & Bootstrap 4 For Web Development from *Bohubrihi* – Completed on August 30, 2023
- Supervised Machine Learning: Regression and Classification from *Coursera* – Completed on April 20, 2023
- Participation Award, NASA International Space Apps Challenge 2024 – Awarded on October 5, 2024
- Participation Award, AI Engineering Hackathon by Poridhi & Brain Station 23 – Awarded on April 26, 2025