

Md. Abed Afnan

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EDUCATION

B. Sc. In Computer Science & Engineering

2021 – 2025

International Islamic University of Chittagong, Bangladesh

CGPA: 3.70

Higher Secondary Certificate (HSC)

2019

Mohipal Govt. College Feni, Bangladesh

GPA: 3.58

PROJECTS

Full Stack Web Development (MERN/PERN)

1. CULTIVIS | [Live Link](#) | [Github](#)

Dec. 2024 – Present

- A full-stack web application that facilitates community involvement, crop monitoring, and advising by bringing together farmers and data-driven agriculture specialists.
- Tools used *NextJs*, *HonoJs*, *MongoDB*, *PostgreSQL*, *Cloudinary*, *Shadcn ui*, *LeafletJs*.

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

Feb. 2024

- A simple ui but feature-rich e-commerce website that offers JWT-based social login, SSLCommerz payment, and admin/user features.
- Tools used *ReactJs*, *ExpressJs*, *MongoDB*, *SSLCommerz*, *PassportJs*, *Tailwind*, and *MVC Architecture*.

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

Aug. 2023 – Nov 2023

- An online furniture store with admin-focused CRUD functions built using the MERN stack.
- Tools used *ReactJs*, *Nodejs*, *ExpressJs*, *MongoDB*

App Development (React Native)

4. FINANCE APP | [Github](#)

Jan. 2024

- A financial app for tracking cash flow like earnings, expenses, and account balances.
- Tools used *React Native*, *Expo*, *Redux toolkit*, *Firebase*, *RESTapi*

RESEARCH WORKS

• Alzheimer's Disease Classification | [Github](#)

Jun. 2024 – Dec 2024

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.

• Comparative analysis of Gait Recognition Technologies | [Github](#)

Jan. 2024 – Dec 2024

In this work we compared several Gait Recognition technologies, exploring handcrafted & Machine learning based approaches for person identification.

AWARDS & CERTIFICATES

- 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
- NASA International Space Apps Challenge 2024 – Awarded on October 5, 2024

TECHNICAL SKILLS

Languages: C++, JavaScript, Python, SQL.

Libraries & Frameworks: ReactJS, NextJS, ExpressJS, React Native, Expo, Pandas, NumPy, Scikit-Learn, Matplotlib & PyTorch (Basic).

Machine Learning & DL: Supervised Learning (Regression & Classification), NLP, Computer Vision (CNN & Pre-Trained Models), Evaluation metrics (F1, Recall, Precision, Accuracy etc.)

Version Control: Git, GitHub.

Databases & ORM/ODM: PostgreSQL, MSSQL, MongoDB, Firebase, Drizzle & Mongoose.

Operating System: Windows & Linux.

Network & Tools: TCP, HTTP, HTTPS, Wireshark.

Architecture & Design Pattern: Client-Server Architecture, MVC.

Hosting & Cloud: Vercel, Render, Netlify, GCP.

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