

## Md. Ferdous Haque

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### EDUCATION

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Daffodil International University  
B.Sc. in Computer Science and Engineering  
CGPA 3.71/4.00

*Dhanmondi, Dhaka*  
*2016-2020*

### PROJECTS

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#### **Blockchain** – Thesis project

- A distributed Solution to exam result database security in a decentralized way
- Implemented blockchain-based database storage for the exam results in the sense of creating a tamper-proof environment for the database

#### **Machine Learning** – Book Recommender System

- Built a web app that can recommend top five books based on user's interest
- Used collaborative filtering method in three datasets and come up the solution

#### **Machine Learning** – Movie Recommender System

- Implemented a website that can read a user's input of a movie name and can recommend top 5 similar movies
- Used content based filtering method in two datasets for this project

#### **Computer Vision** – Human Posture Detection

- Detected 17 key points(coordinates) in human body through real-time video capturing(webcam)
- Used PoseNet neural network technique as a method to develop this project

#### **Computer Vision** – Face Mask Detector

- Trained two large datasets and then used machine learning approach to develop the project
- Ran a function that captures video in real-time and can tell whether a human face has a mask or not

#### **Robotics** – 360 mobile controlled freight car with a robotic hand on top

- The car is mainly built using Arduino platform
- The robotic hand can collect garbage and can put that in a bucket

#### **Android** – Etutor app

- This app can be used by the students who need teacher based on their interest
- In this app students can select their preferred subject can see teachers profile for home tutoring

#### **Web Development** – Cat Adoption website

- This is a website for adopting cat from a pool of cats
- Users can select their preferred cat based on their interest

### WORK EXPERIENCE

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#### **Research Assistant** – Daffodil International University

*2019-2020*

- Worked as a volunteer research assistant in my department and helped juniors in writing papers
- Worked on methods for using blockchain technology in various fields of computer science

#### **Teacher** – Janani FHB kinder Garten (owner)

*2020-2022*

- Taught students about the benefits of learning computer Science-related technology
- Organized special training for teachers about the teaching of primary level students to do better in PSC and JSC

### TECHNICAL SKILLS

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#### Programming Languages

-HTML      -JavaScript      -C++  
-CSS        -Python            -Solidity

#### Skills

-Web Development, Implementing Smart Contract,  
-Data Analysis, Machine Learning, Computer Vision

### AWARDS AND EXTRACURRICULARS

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**Competitive Programming Contest** – Obtained second position in intra-university programming contest (Problem-solving)

**Sports** – Competed for school, varsity and Upazilla level badminton tournaments and won top positions Several times

**Scout** – volunteered on APR scout workshop, Leader of “Green Sylhet, Clean Sylhet”

*2022-present*

**Writing** – Book reviews ([ferdousjim.github.io/books.html](https://ferdousjim.github.io/books.html)), Personal blog ([ferdousjim.github.io/blogs.html](https://ferdousjim.github.io/blogs.html))