



MD. MAHADI HASSAN MUNNA

Software Engineer | Front end Developer | Machine Learning Engineer | UI/UX Engineer | Programmer

PROFILE

Computer Science Engineer with 4 years of academic knowledge of basics and project-based application development. Have possessed a sound understanding of fundamental principles and trends in basic computer engineering. Eager to learn advanced engineering through practice and adapt to new environments, concepts, and projects.

EDUCATIONAL BACKGROUND

MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY (MIST) February, 2021

Bachelor of Science in Computer Science and Engineering
Successfully graduated with a CGPA of **3.70** out of **4.00**

FASHILADANGA COLLEGE

June, 2016

Higher Secondary School Certificate

Graduated with a Grade Point Average of **5.00** out of **5.00**

SAINT PHILIP'S HIGH SCHOOL AND COLLEGE

May, 2014

Secondary School Certificate

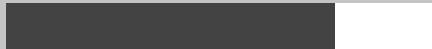
Graduated with a Grade Point Average of **5.00** out of **5.00**

SKILLS

Teamwork



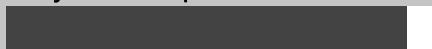
Creativity



Problem Solving



Project Completion



COMPUTER PROFICIENCIES

+ LANGUAGES

C, C++, Java, Python, Javascript

+ WEB DEVELOPMENT

HTML, CSS, Bootstrap, ReactJS

+ DATABASE

Oracle Database, Firebase

+ MACHINE LEARNING

Neural Network, DNN, ANN, Classification, Regression, Object Detection and Tracking, YOLO

+ APP DEVELOPMENT

Android Studio, Flutter, React Native

+ GRAPHICS

Blender, OpenGL, Unity

PROJECTS

+ **Goby24 - Ride Sharing Web based App**

August, 2021

Its a ride sharing app where one can be a rider and passenger. He can book a ride or share ride if he has a car. There are also Tourist services where a tourist can book a ride for a specific tourist spot. This app is created using **React** and **Django**.

+ **Thieves of Justice**

December, 2021

It's a game based on the theme bad is good. Basically, a thief is trying to help a guy named Jake by stealing. So, the player is modern-day Robin Hood who can highlight certain objects to steal and get a targeted value of money. Afterward, give the money back to Jake in order to complete the mission.



EXTRACURRICULAR ACTIVITIES

Participated in several Programming Contests

Participated in ASIS Cyber Security Contest and Country place 3rd Overall International Place - 128th

Participated in JU CTF



Flappy Bird Game

June, 2020

Flappy bird game is a game where a bird flies through obstacles and a player has to control the bird to avoid those obstacles. This game is developed using **OpenGL**. This game is a 2D graphics project. OpenGL is used in C++ environment in CodeBlocks.



Study Tour by the Aliens

September, 2020

This project is based on Animation and Graphics. A short-film is made using **Blender** with 3d animations and objects. In this short-film, Aliens visit earth to learn about different animals in different continents of the world.



Tic Tac Toe Game

October, 2020

Tic Tac Toe is a very interesting and common game. The game is developed in **Android Studio** and is a 2 player game.



Nose Mobile Interaction system for the disabled

November, 2020

This is an android based application. The application helps disabled or handless people to interact with their smartphone. Machine Learning algorithms are used to track nose and teeth using front camera of the smartphone. The tracking of nose makes the cursor movement inside the smartphone and showing teeth will make click operation. This project is developed using **Android Studio**.



Earn Your Breakfast with your hand

December, 2020

This project is a combination of **OpenGL** and **Machine Learning** project. Using OpenGL, A chicken and its environment is created and a pot moves vertically. The speed and direction needs to be adjusted so that the egg can land safely in the pot. The measurement is adjusted using Hand Gesture. The Hand gesture classification is part Machine Learning Project.



Hospital Cabin Management System

February, 2021

This is our final year Thesis project. Its a research based ML project. The main purpose of this project is to give some freedom to the patient of a hospital cabin. The patient will be able to use multiple mode of interaction to control his environment using a computer. This project is developed using **Image Classification, Object detection and tracking using YOLO version 4 tiny, Image segmentation, Voice to Text**, etc.



Corona Update App

March, 2020

During the pandemic lockdown period, this project was developed to keep track of Corona situation like total Cases, Deaths, etc. of the whole world. This project is developed using **Flutter, Firebase, Heroku, web-scraping**, etc.

PUBLICATIONS



ISDA 2020 Conference

December, 2020

Aadeeb, M. S., Munna, M.M.H, Rahman, M.R., & Islam, M.N. (2020). Towards Developing a Hospital CabinManagement System using Brain ComputerInteraction. In proceedings of the 20th International Conference on Intelligent Systems Design and Applications (ISDA 2020), 12 -15 December, 2020, Web Conference.



IEEE Access 2021 Journal

April, 2021

M. N. Islam, M. S. Aadeeb, R. R. Khan, M. M. H. Munna, M. Sarwar, S. Nasrin, A.K.M. N. Islam, "Developing a Novel Hands-free Interaction Technique based on Nose and Teeth Movements for Using Mobile Devices," in IEEE Access, doi: 10.1109/ACCESS.2021.3072195.

WORK EXPERIENCE



BanglaTel LTD (Internship)

Dec 19-Jan 20



Goby24 (Frontend Developer)

April 2021 - Present