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Objectives

I strongly intend to deliver my skills and innovative ideas as a software engineer. I want to work in a professional environment to cope up with the competitive world and contribute to the society.

Education

North East University Bangladesh (NEUB), Sylhet
B. Sc. (Engg.) in Computer Science & Engineering, (2018 - 2022)

Dhaka Imperial College
Higher Secondary Certificate (HSC), 2018

Dampara K.M.U High School
Secondary School Certificate (SSC), 2016

SKILLS

Programming Languages: C, C++, Java, Python, Arduino, PHP, JavaScript.

Technologies: HTML5, CSS, SASS, MySQL.

Framework & Library: Sklearn, Arduino, Bootstrap, GitHub Actions, PHPMailer.

Tools & Software: Unity Engine, Android Studio, Eclipse, Netbeans, Codeblocks, Adobe Illustrator, Photoshop, Blender, Filmora, Microsoft Office, Jupyter Notebook, VSCode, Google Colab, Arduino IDE.

Language Proficiency: Very Good reading, writing, speaking & listening skills in Bengali and English.

Achievements

1677th World Position (13th in BD)
Google Code Jam 2021 Qualification Round

90th Position
ICPC Dhaka Regional 2020 – Onsite Contest (2nd Round)

2nd Runner Up
SJ Innovation Web Development Hackathon 2021

661th Position
ICPC Dhaka Regional 2019 – Online Preliminary

Champion
NEUB Eid Mubarak Code Challenge - 2020

1st Runner Up
Robotics Contest
NEUB ICT FEST – 2019

2nd Runner Up
Project Showcasing
NEUB ICT FEST – 2019

1st Runner Up
NEUB October Code Challenge

Projects

ReachMe - A Social Media Platform
This a social media platform website with admin panel. I developed this entire project from scratch. I used PHP for most of the backend operation management, as well as HTML, CSS for frontend and JavaScript, jQuery for some backend functionalities and optimization. I used MySQL for data storage and MySQL Event for timed MySQL Command Execution. I also used PHPMailer for verification code and notification emailing service. Fontawesome 5 is used for icons and Bootstrap 5 is used for mobile view optimization.

NEUB Workshop Site
I developed my university's workshop site using PHP. The site features a secured student registration and login system as well as workshop registration, attendance, scheduling, noticeboard and programming contests.

NEUB CodeLand Forum Site
I made a web forum website for my university. I used html, css, javascript, jQuery, MySQL, PHP etc. to complete this one. That was my first ever dynamic website project.

Face Recognition Using My Own Dataset - Machine Learning
This is one of my biggest AI project. I used machine learning, more specifically CNN to recognize 11 Bengali movie stars. The network was trained using my self-made dataset consisting of more than 4000 images.

Robotic Arm with Manual & Auto Control

I made a robotic arm controllable semi automatically or full manually by the control panel. I was initially planned to use glove control but lack of fund and materials/components forced me to implement the arm with the control panel instead of using a hand glove control.

Smart LFR

This is a normal line follower robot with a different feature. Sometimes line follower robots loses track because of high speed and environmental or hardware issues. But the LFR I made, has a capability to remember the last seen path before getting lost. After getting lost, a path finder algorithm runs and it uses the last seen experience data to determine that in which direction it will try to find the path. The process of path finding here, may seem complex. But I was able to achieve that complex system with a surprisingly simple code.

WIFI Controlled Car with ESP8266 and Arduino

This is the startup/warm up part of my one of the biggest project named "XeroBot". The main concept is to make a robot that can go to humanly unreachable places and can interact with the environment like a real human being.

Smart and Automated Water Pump Controller and Water Level Indicator

The Goal of this project was to control the water pump we use in houses and factories to fill the water tanks. It has 3 modes, manual, semi auto and full auto. Manual mode gives the user to control everything. In semi auto mode, user can start the pump manually anytime he wants, and the system will turn the pump off when the tank is full automatically. In full auto mode, user has no control, the pump is started by the system whenever the tank gets empty and stops the pump when the tank gets filled.

A Very Simple Retro Style Game

This is a simple old school retro type game I made for one of my university courses in Java.

A Demo Operating System

This is a demo operating system software made with Java and Java Swing framework. This software contains few very basic features of a typical operating system. The features available are: File Browsing, File Searching, Power menu with Restart and Shutdown option.

A Simple Calculator with Java GUI

This is just a simple calculator I made for one of my university courses project. It has two unusual buttons, one redirects to my university website and another redirects to my personal Facebook profile.

Demo Bank Management Application

This is a demo bank management application I made for one of my university courses.

Other Achievements

Srijansheel Medha Anweshan: 1st Position in District level.
Debating: 1st Position in District level.

References

Engr. Tofayel Ahmed Ovee
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(PhD) Scholar in Chemical
Engineering at Auburn
University, USA.
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