

Ucchwas Talukder Utsha

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WORK EXPERIENCE

FIFTYTWO DIGITAL LTD. | SOFTWARE ENGINEER

| Aug 2021 - current

- Implementing major product features.
- Working on C++,JS in Linux environment.

EMERGING IT BANGLADESH LTD. | SOFTWARE ENGINEER

| Feb 2021 - Jul 2021

- Worked on REST APIs and back-end servers using Java on Spring Boot framework.
- Developed front-end GUIs using Angular Js.
- Integrated APIs in Andriod Studio.

EDUCATION

BSc. in Computer Science and Engineering

| Feb 2021

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY

RESEARCH EXPERIENCE

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY | UNDERGRADUATE THESIS

| 2020 - 2021

- Popularity Based Framework for Content Caching in Named Data Network.
Supervisor: Dr. Mahmuda Naznin(Professor, Dept. of CSE,BUET)

RESEARCH INTERESTS

- Machine Learning
- Image Processing
- Internet of Things(IoT)
- Fault Tolerant System

PROJECTS

PATTERN RECOGNITION

PYTHON

Perception, Channel Equalizer Data, Template Matching and Neural Network projects.

ADDRESSOVERFITTING-FLOWERCLASSIFICATION

CONVOLUTIONAL NEURAL NETWORK,PYTHON

Built a CNN to classify flower images. Also explored how my model overfits and how overfitting can be addressed using data augmentation.

IMAGE CLASSIFICATION

CONVOLUTIONAL NEURAL NETWORK,PYTHON

Classify small images using tensorflow keras datasets.Also, checked how accuracy improves fast with CNN and figured out how CNN can be a better choice for doing image classification compared to ANN.

HANDWRITTEN NUMBER CLASSIFICATION

PYTHON

Classify a given image of a handwritten digit into one of 10 classes representing integer values from 0 to 9 using MNIST dataset.

LIBRARY MANAGEMENT SYSTEM

JAVA SPRING BOOT

Web project of a university library system,used Postgresql database to store data.

MEAL SYSTEM

JAVA,ANDROID STUDIO

An android app where hostel students can keep track of their daily meal and calculate cost easily.

ROOM RENTING PLATFORM

PHP,LARAVEL

A web-based platform where clients can book suitable rooms for them in any hotel/hostel which is available. Also hotel/hostel owners can add their places and update bookings.

GRAPHICS PROJECT

C++

Built Sphere to/from Cube, Wheel etc and Ray Tracing using OpenGL Codeblocks.

REST API PROJECT

JAVA SPRING BOOT

A project that will take a question via an URL Encoded Get parameter in the URL Endpoint and will respond to the answer in JSON format.

SKILLS

Languages: Java, C++, Python, C#, PHP, C, Intel 8086 Assembly Language, LATEX

Databases: PostgreSQL, Firebase, MySQL

PROGRAMMING EXPERIENCE

Actively participated in problem solving. Mainly solved problems on LeetCode.

- **LEETCODE** 
- **HACKERRANK** 

ACHIEVEMENTS

- Selected from BUET and attended in Student To Startup at National level.
- Secured 1st position in Science Olympiad from Sylhet Division in Junior level.
- Board Talent Scholarship in Secondary School Certificate-2013 from Sylhet Education Board.
- Board General Scholarship in Junior School Certificate-2011 from Sylhet Education Board.