

# Ucchwas Talukder Utsha

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## WORK EXPERIENCE

### FIFTYTWO DIGITAL LTD. | SOFTWARE ENGINEER

| Aug 2021 - current

- Planning, designing, and developing various features of 52RETAIL POS software.
- Designing, developing, and documenting REST APIs for the POS software.
- 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

GPA: 3.06(out of 4.00)

## RESEARCH EXPERIENCE

### COMPUTING PATIENT SIMILARITY FOR CLINICAL DECISION SUPPORT USING TIME SERIES AND STATIC DATA | ONGOING

Advisor: Dr. Mohammad Saifur Rahman(Professor, Dept. of CSE,BUET)

- This research is focused on developing an efficient unsupervised framework by using time series and static data to cluster patients into different groups.

### POPULARITY BASED FRAMEWORK FOR CONTENT CACHING IN NAMED DATA NETWORK. | UNDERGRADUATE THESIS

| 2020 - 2021

Advisor: Dr. Mahmuda Naznin(Professor, Dept. of CSE,BUET)

- This research is focused on eliminating caching redundancy and accommodate as much diverse content as possible in caching systems.

## RESEARCH INTERESTS

- Machine Learning
- Security
- Human-Computer Interaction (HCI)
- Internet of Things(IoT)

## PROJECTS

### GENERATES FACES USING STYLEGAN2

PYTHON

Train and generate high-quality faces with StyleGAN2 neural networks.

### PATTERN RECOGNITION

PYTHON

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

### ADDRESS OVERFITTING-FLOWER CLASSIFICATION

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.