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
- Artificial Intelligence
- Internet of Things(IoT)
- Network

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.