

# Tasfik Rahman

in tasfik007 | tasfik007 | tasfikrahman007@gmail.com | +880-1845630022

## EDUCATION

### MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY

B.SC. IN COMPUTER SCIENCE  
2017-2021 | Mirpur, Dhaka  
Cum. GPA: 3.52 / 4.00

### UNDERGRAD THESIS

Deep Convolutional Neural Network  
Based Biometric System Using  
Retinal Blood Vessel Segmentation

## ONLINE PROFILES

1750+ rating in **Codechef**  
120+ problems solved on **Leetcode**  
Rank #1 in institute on **GFG**  
150+ solved problems in **Hackerrank**  
Max rating 1100+ in **Codeforces** with  
240+ problems solved in **this profile**.

## COURSEWORK

### UNDERGRADUATE

Data Structures & Algorithms  
Discrete Mathematics  
Pattern Recognition  
Digital Image Processing  
Database Management System  
Functional Programming  
Object Oriented Programming  
Differential & Integral Calculus  
Software Engineering  
Operating Systems  
Artificial Intelligence

## TECHNICAL SKILLS

### PROGRAMMING

Experienced:

• C • C++

Intermediate:

• Javascript • Python • Java  
• Matlab • NodeJS •  $\text{\LaTeX}$

Familiar:

• ReactJS • Android • MongoDB  
• MySQL • Firebase • C#

## SOFT SKILLS

- Team Work • Leadership
- Decision Making
- Ability to Work Under Pressure
- Time Management
- Adaptability • Innovative

## EXPERIENCE

### MIST COMPUTER CLUB | MENTOR

March 2019 - Present | Mirpur, Dhaka

- Took programming Classes on C, C++ over 100+ students.
- Problem setter of MIST **CODEWAR 2020** arranged by MCC.
- Contributing in making template codes for **LightOJ**, to help users code faster.

### TRUST BANK LTD. | DATABASE INTERN

Dec 2019 – Jan 2020 | Shadhinota Tower, Dhaka

- Did my internship in Database Management System of Trust Bank IT Division under the supervision of Mir Mezbah Uddin, Senior Database Administrator.

## PROJECTS

### COVID19 PREDICTION USING CNN

Code | Live

- Covid19 +ve data fetched from [this](#) repo & -ve data from [this](#) kaggle dataset. [Here](#) is my final merged dataset.
- The network consisted of 5 CNN layers, 4 max pool layers, and 4 dropout layers. Which gives 95% accuracy.
- WebApp backend developed with flask framework.

### MATERNAL HEALTH AND CHILD SUPPORT SYSTEM

Code | Live

- Collected ground data from 30+ families. This is a system for recording maternal health and providing them health advice during their perinatal period.
- Oracle SQL Database is used to store the data, Server was built with **nodejs** and **express**, with a HTML5, CSS3, Bootstrap frontend.

### BANK TRANSACTION MINIMIZATION VISUALIZER

Code | Live

- Implemented with Split Wise Algorithm,  $T = O(n \log n)$  & the was UI made with HTML5, CSS3, JS.

### EL-DISINFECTO, UVC DISINFECTION ROBOT

Code | Live

- Autonomous Movement using Sonar Sensors, UI implemented with **reactjs** as a web app.
- Remote Access from anywhere in the world with **Raspberry pi** and **firebase** integration.

## ACHIEVEMENTS

2020	3 <sup>rd</sup> Globally/2729	Facebook Hackathon 2020
2020	Globally 336 <sup>th</sup>	November CookOff, CodeChef
2020	4 PRs accepted	Hacktober Fest, 2020
2020	Semi-Finalist	Microsoft AI Gaming Code A Bot Bangladesh
2019	Top 10	Code Samurai Hackathon 2019, BJIT

## PUBLICATIONS

- [1] T. Rahman, A. Anjum, R. Rahman, and R. R. Khan. A Proposed Integrated System Towards Digitizing the Maternal Health and Children Support Process in Developing Countries. In *2019 IEEE International WIE Conference on Electrical and Computer Engineering (WIECON-ECE)*, pages 1–4. IEEE, 2019.