Md. Tariquel Islam Tamim

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🎓 Education

Military Institute of Science and Technology (MIST),　　　　　　　　　　2019 – 2023
B.Sc in Computer Science & Engineering (CSE)　　　　　　　　　　　　　Dhaka, Bangladesh
CGPA: 3.69 out of 4.00

Adamjee Cantonment College, *Higher Secondary Certificate*　　　　　　　2016 – 2018
GPA: 5.00 out of 5.00　　　　　　　　　　　　　　　　　　　　　　　　Dhaka, Bangladesh

Ideal School and College, *Secondary School Certificate*　　　　　　　　　2014 – 2016
GPA: 5.00 out of 5.00　　　　　　　　　　　　　　　　　　　　　　　　Dhaka, Bangladesh

📖 Research and Publication

Developing a Deep Learning-based AR Shoe Try-on App with 3D Shoe Modeling from Smartphone Images,
Thesis
Completed thesis work based on 3D modeling using photogrammetry, Foot Keypoint Estimation using ResNet50, and Augmentation of 3D objects in 2D space using ARcore.

Footwear 3D Model Generation from Smartphone 2D Images Utilizing Photogrammetry, *IEEE* ⬈
This study proposes a potential and affordable method for using photogrammetry to create 3D representations of footwear.

Identifying Design Guidelines of Interactive Whiteboard Interfaces Through Usability Evaluation, *Springer* ⬈
The objectives of this study are to evaluate the interfaces of the whiteboards to reveal their usability problems and to provide possible design guidelines to improve the usability of such embedded systems.

A Conceptual Framework of an Automated Mosquito Control in Drainage Systems for Combating Dengue in Bangladesh, *IEEE* ⬈
The detection process of this system showed success of more than 80% on all performance parameters.

🧠 Skills

Problem Solving (*Solved more than 1000 problems in various online judges and onsite contests including ACM ICPC Asia Dhaka Regional, National Collegiate Programming Contest (NCPC) and other competitive contests.*)

C & C++ | **C#** | **Java** | **Python** | **PHP** | **Java-Script** | **Futter & Dart** | **React** | **Laravel**

MySQL, Oracle & SQLite | **Firebase** | **Flask**

Machine Learning (*Hands-on experience with various machine learning and deep learning algorithms.*)

📁 Projects

Agro-Drone, *Capstone Project* ⬈
A drone is used for the data retrieval process and that data is processed using machine learning and computer vision in a web-based system to detect plant disease, the current situation of deforestation, and river erosion.
- Hardware: **Custom-made drone, FPV camera**
- Frontend: **HTML, CSS, JS**
- Backend: **Python, Flask, NodeJs**
- Database: **MongoDB**

MIST Computer Club, *Database Project*
A website for managing computer clubs including club members, panel members, and moderators.
- Language/Framework: **PHP, Laravel**
- Database: **Oracle, PL/SQL**

NCPC Management, *Java Project* ⬈
GUI-based software for organizing and managing NCPC (National Collegiate Programming Contest) events.
- Language: **Java**

QR-Contact, *Freelance Project*
Both generate and extract QR codes for sharing business cards and contact details.
- Language/Framework: **Flutter and Dart**

- Platform: **Android and iOS**
- PlayStore: **QR Contact** ⍇

Nirbaan Express Courier, *Freelance Project* ⍇
An e-courier software. Developed and deployed both web and mobile apps.
- Language/Framework: **Flutter and Dart**
- Platform: **Web & Android**
- API: **REST(Laravel)**
- PlayStore: **Nirbaan Express Courier** ⍇

Medical Appointment, *Freelancing Project*
Developed and deployed a doctors' appointment web portal for a private clinic.
- Language/Framework: **PHP, Laravel**
- Database: **MySQL**

Bongopedia, *Personal Project*
*A virtual reality (**VR**) app for visualizing various places of Bangladesh.*
- Language/Framework: **Flutter and Dart**
- Platform: **Android**

🗄 Professional Experience

JB Connect LTD, *Software Engineer* ⍇ Laravel, AWS & ReactJs	Apr 2023 – present
Robi Axiata Limited, *Internship* ⍇ Blockchain and Data Science.	Feb 2022 – Mar 2022 Dhaka, Bangladesh

🧩 Extra-Curricular Activities

Software and Communication Team Lead, *MIST Mars Rover Society* Built Mars rover and represented Bangladesh in two international competitions.	2021 – 2022
Mentor & General Secretary, *MIST Computer Club* Took classes on Data Structure and Algorithm (DSA) and problem-solving	2020 – 2022
Problem-Setter and Tester, *Codewar2020, Talent-hunt2021, Weekly Contest, etc.* Platform - codeforces, hackerrank, etc.	2021 – 2022

Organizer, *MIST IUPC 2019, MIST NCPC 2020, Codewar 2020, Talenthunt 2021, etc.*

🏅 Awards and Certificates

Anatolian Rover Challenge (ARC) 2022, *Istanbul, Turkey (2nd Runner-up)* ⍇

University Rover Challenge 2021, *USA (Champion)*

MIST Dean's List of Honour-2020, *Academic Session (2019 - 2020)*

Mobile App Contest of Inter University ICT Innovation Fest- 2021, *1st runner-up* ⍇

ACM ICPC Asia Dhaka Regional Online Preli 2022, *MIST_EndGame (42th)* ⍇

ACM ICPC Asia Dhaka Regional 2022, *MIST_EndGame (76th)* ⍇

ACM ICPC Asia Dhaka Regional 2021, *MIST_ThreeHorseman (76th)* ⍇

RUET IUPC 2022, *MIST_Hadron (45th)* ⍇

NCPC 2020, *MIST_Metasploit* ⍇

BAIUST IUPC-2019, *MIST_ZenerDiode (18th)*

UITS IUPC-2019, *MIST_ZenerDiode (11th)* ⍇

International Conference on 4th Industrial Revolution,
Place in top 100 in MUJIB 100 Idea Contest amongst more than 1000 teams ⍇

Project Showcase (software) in RUET CSE FEST 2022, *2nd Runner-up*

DU Codesamurai Hackathon 2022, *Achieved a position in the top 15 amongst 400+ teams*

SUST CTF (Capture The Flag) Competition 2023, *16th*

⌨ Problem Solving Profile

StopStalk, *splash365* ⍇ | **Leetcode,** *splash365* ⍇ | **Codeforces,** *splash365* ⍇ | **Codechef,** *splash365* ⍇ | **vjudge,** *splash* ⍇ | **UVA,** *splash365* ⍇ | **HackerRank,** *splash365* ⍇ | **ICPCID,** *Tariquel Islam Tamim* ⍇