

MD ATIQRUR RAHMAN

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📍 Address: Adabor, Mohammadpur, Dhaka - 1207
✉ atiqurrahman23@iut-dhaka.edu | 📞 01780420405

SUMMARY

Enthusiastic Lecturer in Computer Science and Engineering with a passion for research in computer vision and a strong interest in competitive programming. Continuously striving to improve problem-solving skills, actively engages in challenging tasks and projects to push personal and professional limits. Dedicated to inspiring students through impactful teaching and fostering innovation in computing and engineering.

EDUCATION

Islamic University of Technology

Bachelor of Science in Computer Science and Engineering

Board Bazar, Gazipur

2018 – 2023

- **CGPA** : 3.98 out of 4.00
- **Mertit Position** : 1st out of 99

Cumilla Cadet College

Higher Secondary School

Kotbari, Cumilla

2016 – 2018

- **GPA** : 5.00 out of 5.00

Cumilla Cadet College

Secondary School

Kotbari, Cumilla

2014 – 2016

- **GPA** : 5.00 out of 5.00

TECHNICAL SKILLS

Languages	: C, C++, C#, Python, Java, JavaScript, PHP, HTML, CSS
Frameworks	: React Native, Pytorch
Databases	: Oracle, MySQL, Firebase
Dev Tools	: Visual Studio Code, Rider, PyCharm, Jupiter Notebook, Git
Other Tools	: Proteus, Oracle VM Virtual Box, Cisco Packet Tracer, GNS3, Unity

WORK EXPERIENCE

Lecturer in CSE

Islamic University of Technology

August 2023 – Present

Gazipur, Bangladesh

- Conducting coordinated lectures and laboratory sessions for CSE and SWE students, along with offering supplementary after-class sessions to support students in comprehending the covered topics. Additionally, managing various administrative responsibilities.

Lecturer in CSE

United International University

July 2023 – August 2023

Dhaka, Bangladesh

- Taking coordinated classes and labs of CSE students and providing after class session to help students who have issues understanding the covered topics.

Game Developer Intern

Battery Low Interactive Ltd.

Oct 2021 – Nov 2021

Remote – Dhaka, Bangladesh

- Designed and developed dynamic and responsive 2D games using **C# and Unity Game Engine**.




ARTICLES UNDER REVIEW

- **Rahman, M. A.**, Asad, N. I., Omi, M. M. H., Hasan, M. B., Ahmed, S., & Kabir, M. H. (2024). FUSED-Net: Enhancing Few-Shot Traffic Sign Detection with Unfrozen Parameters, Pseudo-Support Sets, Embedding Normalization, and Domain Adaptation. arXiv preprint arXiv:2409.14852.







RESEARCH INTERESTS

- Recognizing **Traffic Signs** utilizing SOTA **Few-Shot Object Detection** methods
- Bench-marking **GTSRB** using **Few Shot Learning**
- **Medical Image** segmentation utilizing **Federated Learning**

RESEARCH PROJECTS

Few Shot Bangladeshi Traffic Sign Detector	<i>Python, Pytorch</i>	 Source Code
<ul style="list-style-type: none">• A detector which detects and classifies Bangladeshi traffic signs using only few samples.• Introduced domain adaptation, pseudo support set, Instance Level Feature Normalization and warm model concept to achieve comparatively better results than some SOTA architectures.		
Bench-marking GTSRB for Few Shot Learning	<i>Python, Pytorch</i>	 Source Code
<ul style="list-style-type: none">• We used metric based few shot classifiers e.g. BDCSPN, PrototypicalNet, RelationNet, TransductiveFinetune for bench-marking GTSRB.		
Federated Organ-agnostic Tumor Segmentation	<i>Python, Pytorch</i>	 Source Code
<ul style="list-style-type: none">• We utilized the U-Net architecture as both the global and local model within the FedAVG algorithm to segment tumors in two organs, specifically the breast and brain.		

PROJECTS

Monetta Game Management	<i>C, SDL2</i>	 Source Code
<ul style="list-style-type: none">• A Game Managment System• Used SDL2 library to improve UI• Players can play three different games in one platform• Stored, Manipulated and updated data using file system		
Media Editor	<i>Java, jFoenix, FFmpeg</i>	 Source Code
<ul style="list-style-type: none">• Used jFoenix for better UI• FFmpeg is a library which can be used to edit different media files• Java is the controller of both jFoenix and FFmpeg		
Payel Jamdani Bitan	<i>JavaScript, CSS, HTML</i>	 Source Code
<ul style="list-style-type: none">• An ecommerce website where you can buy Jamdani Saree online.		
MusiChat	<i>JavaScript, React Native, Firebase</i>	 Source Code
<ul style="list-style-type: none">• A mobile app using which you can chat with people who are listening to the same music.• Used real time database of Firebase to implement chat room.• Used react native because both android and IOS supports it.		
Expense Tracker	<i>JavaScript, React Native, MySQL</i>	 Source Code
<ul style="list-style-type: none">• A mobile app using which you can track your expenditure by inputting data daily.• Used MySQL to implement Relational Database to output information out of user's data.• Used react native libraries to implement calendar and charts.		
Save The Assassin	<i>C#, Unity Game Engine</i>	 Source Code
<ul style="list-style-type: none">• Player needs to escape enemies and find a getaway to escape from the danger in limited time.• C# has benefits of both C++ and Java but none of their drawbacks.		