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Mr. Shekh. Md. Saifur Rahman

Lecturer, Dept. of CSE

ROOM: 837 (D) PABX: 3134 Email: saifur@cse.uiu.ac.bd \* Home \* Faculty Profiles

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Overview

Research Interest

- Generative AI
- Image Processing
- Machine Learning
- Computer Vision
- IoT

Education

- M.Sc. Engg. in Computer Science and Engineering  
Bangladesh University of Engineering and Technology (BUET)  
Ongoing
- B.Sc. in Computer Science and Engineering  
Military Institute of Science and Technology (MIST)  
Date of Graduation: April 2024  
Thesis Supervisor: Assistant Professor Nuzhat Tabassum [ref]
- Higher Secondary Certificate in Science  
Moulvibazar Govt. College  
Passing year: 2018
- Secondary School Certificate in Science  
Bhadgaon Taherunnessa High School, Moulvibazar  
Passing year: 2016

## Professional Experience

- **Lecturer** , Department of Computer Science and Engineering  
United International University, Dhaka, Bangladesh  
[Oct 2024 – present]
- **Lecturer** , Department of Computer Science and Engineering  
Military Institute of Science and Technology, Dhaka, Bangladesh  
[Apr 2024 – Oct 2024]
- **Data Structures and Algorithms Instructor** , MIST Computer Club  
Military Institute of Science and Technology, Dhaka, Bangladesh  
[Jul 2021 – Mar 2024]
- **Vice President, Committee of R &D**, MIST Computer Club  
Military Institute of Science and Technology, Dhaka, Bangladesh  
[Feb 2023 – Mar 2024]
- **Software Engineer Intern**, IT division  
Trust Bank Limited, Dhaka, Bangladesh  
[Jan 2023 – Feb 2023]
- **Executive Member**, MIST Mars Rover Society  
Military Institute of Science and Technology, Dhaka, Bangladesh  
[Oct 2021 – Mar 2024]

## Projects

- **Persidani Fusion (Thesis)**  
*Technology: ANN, GANs, Image Processing, Style Transfer, Python*  
— Developed a StyleGAN model that blends Persian patterns with traditional Jamdani motifs, resulting in innovative and culturally enriched design recommendations.  
[Mar 2023 – Present]
- **NextGen Wheelchair**  
*Technology: Machine Learning, Image Processing, Python, Arduino, JavaScript, IoT*  
— Developed a customized wheelchair that allows remote monitoring and control through multiple modules, enhancing adaptability and ease of use for individuals with physical disabilities.  
[Sep 2022 – Jun 2023]
- **Heatmap Generation from Feet Pressure**  
*Technology: Python, Arduino, Pressure Sensors, IoT*  
— Developed a system to generate heatmaps that visualize the pressure distribution on a user’s feet during walking, enhancing the analysis of gait and improving orthopedic assessments.  
[Dec 2022 – Feb 2023]
- **Train Up**  
*Technology: MySQL, PHP, JavaScript, HTML, CSS, Bootstrap*  
— Developed a comprehensive trainee management system, enhancing the efficiency of trainee tracking and administration at Trust Bank.  
[Jan 2023 – Feb 2023]
- **My Shop**  
*Technology: Java*  
— Developed a comprehensive management system for a shopping mall, enabling efficient shop administration and streamlined operations.

## Publications

## Skills

- **Languages:** C/C++, C#, Java, Python, PHP, JavaScript, SQL, HTML, CSS, Bash
- **Frameworks and Libraries:** Bootstrap, .NET, Flask, Django, React, TensorFlow, Keras, Pytorch
- **Tools and Platforms:** Linux, Git, MATLAB, Cisco Packet Tracer, Proteus, Arduino IDE

## Leadership and Awards

- Earned Dean’s List honors in the 1st, 2nd, 3rd, and 4th years of B.Sc.
- Secured 1st place in the Independence Day Programming Contest 2023.
- Attained 1st position at the University Rover Challenge (URC) 2021.

- Placed 3rd position at the Anatolian Rover Challenge (ARC) 2022.
- Secured 5th position at the Anatolian Rover Challenge (ARC) 2023.
- Achieved 43rd place in the ICPC Asia Dhaka Regional Contest 2022.
- Ranked 44th in the SUST IUPC 2023.
- Mentored the technical team at MIST Robotics Club.
- Served as an Executive Director at MIST Robotics Club.

## Certifications

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- **Fundamental IT Engineer Examinations, ITEE**  
Information Technology Promotion Agency, Japan (IPA)  
[Oct 2023]

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- Dept. of Pharmacy
- Dept. of English
- Dept. of EDS
- Dept. of MSJ
- SoBE (BBA, AIS, MBA, EMBA)
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