Sefatul Wasi

Nationality: Bangladeshi   **Date of birth:** 16 Feb 1999   **Gender:** Male

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in **LinkedIn:** https://www.linkedin.com/in/sefatul-wasi-5a606715a/

🌐 **Website:** https://walle1602.github.io/Portfolio/

📍 **Home:** House #290, Road 1, F block, Bashundhara R/A, 1229 Dhaka (Bangladesh)

WORK EXPERIENCE

University Research Assistant
Department of Computer Science & Engineering, Independent University, Bangladesh. [1 Jul 2022 – Current]

Country: Bangladesh

1. Working on automatic ROI localization solutions using image processing and deep learning-based techniques.
2. Conduct literature reviews, summarize research papers.
3. Analyze and process dataset for deep learning models.
4. Write research proposals and relevant applications.
5. Publish research findings in academic journals and conferences.
6. Teach and mentor undergraduate thesis students.
7. Currently 3-5 students working on subsequent topics of my project.
8. Started as a thesis student, currently serving as a part-time research assistant.

University Teaching Assistant
Department of Physical Sciences, Independent University, Bangladesh. [1 Jan 2019 – 30 Apr 2022]

City: Dhaka
Country: Bangladesh

1. Assist the professors in lab classes to perform experiments and tutorials.
2. Invigilate various exams throughout the semester.
3. Organize and manage national competitions like Math and Physics Olympiad.

EDUCATION AND TRAINING

Bachelor of Science (B.Sc.) in Computer Science
Independent University, Bangladesh. [Jan 2018 – Aug 2022]

City: Dhaka
Country: Bangladesh
Website: http://iub.ac.bd/academics/departments/cse
Final grade: 3.44
Thesis: Kidney Tumor Recognition from Abdominal CT Images using Transfer Learning and Deep Convolutional Neural Networks

• Earned 138 credits. (North American Credit Hours System)
• Commendable results in higher level courses like image processing, database management, blockchain and management science.

PUBLICATIONS

Kidney Tumor Recognition from Abdominal CT Images using Transfer Learning

[2023]

Investigation of a Cow Urine-Based Power Generation Technology model for a Cost-Effective and Sustainable Energy Source

[2023]

Automated semantic segmentation of pelvic bones and fracture diagnosis from radiographic images

[2024]

In Review

Submitted at the Scientific Reports Journal.

Kidney Tumor Segmentation from Abdominal CT Images

[2024]

In Progress

To be submitted at the Computers in Biology and Medicine journal.

PROJECTS

AI-powered Recommendation Platform for the Real Estate Industry in Bangladesh: PropertyAI

[Mar 2023 – May 2023]

- Selected as a core team member for Omdena Bangladesh Chapter.
- An innovative web application named 'PropertyAI' that harnesses the power of artificial intelligence to provide recommendations for similar products and predict fair prices by meticulously analysing Bangladesh's prominent real estate websites.
- Worked as a collaborator in tasks like web scraping using scrapy, EDA and model development.

Link: https://github.com/OmdenaAI/dhaka-bangladesh-real-estate-recommendation

Plato VI - Student Performance Monitoring System

[30 May 2021 – 26 Aug 2021]

- A Student Performance Monitoring System built on Flutter Web which automates the process of monitoring by mapping COs to PLOs and generating various reports.
- Utilizing flutter framework for easy cross platform access and GetX for well-organized state management.
- Worked as a team of 5 and got 'A' in database management for the project.
- Recognized as the best functional system in the section by the instructor.

Link: https://github.com/WallE1602/PLATO_VI

DIGITAL SKILLS

Computer Vision & Deep Learning

Deep Learning (Tensorflow, Pytorch(basic), Jax/Flax(basic)) / Image Processing, Image Analysis, Image Segmentation / Frameworks & Libraries: OpenCV, Sci-kit learn, NumPy, Pandas, SciPy, Matplotlib. / Basic OpenCV / Medical Image Preprocessing

Programming Languages, Databases and other tools

Python / Dart programing language / MySQL / Java

Software and Web Development

Development: HTML, CSS, JavaScript, Bootstrap 4, Android, Flutter / Github / Firebase / WordPress and Wix / Postman

Analytical Tools, Office Softwares & Operating Systems

Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access / Data Visualization (Tableau, Power BI) / MITK / Exploratory Data Analysis (EDA)

LANGUAGE SKILLS

Mother tongue(s): **Bengali**

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

VOLUNTEERING

Student Mentor at IEEE Computer Society IUB Student Branch Chapter

[Feb 2022 – Feb 2023]

1. Supervise the present executive committee as it develops and organizes various events and activities.
2. Provide guidance in decision-making situations for organizational tasks.

Treasurer at IEEE Computer Society IUB Student Branch Chapter

[Feb 2020 – Feb 2022]

1. Budget preparation and management.
2. Acting as a liaison between the department and the organization.
3. Reporting on official activities and events in IEEE vTools.

Achievements:

1. "Best CS Student Branch Chapter" in 2020, 2021.

IT & Communication Coordinator at IEEE Computer Society IUB Student Branch Chapter

[Nov 2018 – Feb 2020]

1. Assist with different organizational responsibilities such as event management, IT, and logistics.
2. Maintaining various data in spreadsheets and email management.
3. Other responsibilities include event brainstorming and research for possible event sponsors.

Achievements:

1. "Outstanding Participation in IEEE Computer Society Events" in 2018.
2. "Best IEEE Computer Society Student Chapter Award" (on Activities in 2018).

HONOURS AND AWARDS

Dean's List Summer 2018

Independent University, Bangladesh. [Jul 2019]

Runners-up at Intra IUB Techfest Hackathon Summer 2019

Independent University, Bangladesh. [Aug 2019]

Runners-up at Intra IUB Techfest Hackathon Autumn 2019

Independent University, Bangladesh. [Dec 2019]

HOBBIES AND INTERESTS

Football

Cycling

Cooking

RECOMMENDATIONS

UG Thesis and Research Supervisor
Name: Dr. Saadia Binte Alam
Email: saadiabinte@iub.edu.bd

Head of the department,

Associate Professor,

Department of Computer Science Engineering,

Independent University, Bangladesh. (IUB)

Link: https://scholar.google.co.jp/citations?user=icY7ge0AAAAJ&hl=ja

Mentor
Name: Md Wahidul Hasan
Email: Hasan.m.wahidulsets@iub.edu.bd

Lecturer,

Department of Computer Science Engineering,

Independent University, Bangladesh. (IUB)

PhD Candidate and Fellow NASA JPL,

South Dakota School of Mines and Technology, USA.

Link: https://scholar.google.com/citations?user=WNwgK3sAAAAJ&hl=en