Md Robiul Islam

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Education

William & Mary | **Aug 2024 – Ongoing**
PhD in Computer Science   ,

Uttara University | **Jan 2019 – Jan 2023**
Bachelor of Science in Computer Science and Engineering   ,
CGPA: 3.98/4, class position: 1st/50

Research Interest

- Machine Learning
- Medical Image Analysis
- Computer Vision
- Natural Language Processing

Experience

William & Mary | **Aug 2024 – Ongoing**
Graduate Teaching Assistant   *Virginia, USA*
- CS 301: Software Development [Instrocter: Prof. Peter Kemper]

Uttara University | **Aug 2023 – Jan 2024**
Lecturer (Part-Time)   *Uttara, Dhaka*
- Conducting classes
- Prepare course materials
- Advising student
- Others activities as per university policy

WPXPO | **Mar 2023 – Jul 2023**
Junior Software Engineer   *Shyamoli, Dhaka*
- Worked with PHP, ReactJs, HTML, CSS, SCSS
- Working closely in a professional environment with an experienced software engineer

Right Brain Solution | **Sep 2022 – Feb 2023**
Software Engineer, Intern   *Uttara, Dhaka*
- Worked with Frontend HTML and CSS
- Contributed current project of the company

Selected Projects

Music Recomended System | *Python, Keras, Tensorflow, Shap*   **March 2024**
- This project was created for recomending spotify music based on user interest

Iris Flower Classification | *Python, Keras, Tensorflow, Shap, Seaborn, Matplotlib*   **March 2024**
- This project was created for to indentify the iris flower based on their sepal length, sepal width , petal length and petal width

Spam Email Detection using machine learning | *Python, Keras, Tensorflow*   **January 2023**
- This project was created to identify the ham and spam emails
- It can easily identify ham and spam email with 95% accuracy

Fake News Classification using machine learning | *Numpy, Pandas*   **February 2023**
- This project was created to classify the fake news
- It can easily classify false with 93% accuracy

FaceMask detection using CNN | *Matplotlib*   **March 2023**
- This project was created to detect either a person wearing a mask or not
- It can perfectly identify either a person wearing a mask or not with 91% accuracy

ERP Management System | *PHP, Laravel, HTML, CSS, MySQL*   **February 2024**

Restaurent Management System | *PHP, Laravel, ReactJs*   **January 2023**

Hospital Management System | *PHP, Laravel, ReactJs* **March 2023**

Password Generator | *JavaScript, HTML, CSS, Jquery* **August 2023**

Portfolio Website | *JavaScript, HTML, CSS, Jquery* **September 2023**

Simple Shopping website | *HTML, CSS, SCSS* **December 2023**

Publications

Al Amin, Anik Sarker, Md Mahamoudul Islam, Asif Ahammad Miazee, **Md Robiul Islam** and Md Mahmudul Hoque, "Sentiment Polarity Analysis of Bangla Food Reviews Using Machine And Deep Learning Algorithms, 3rd International Conference on Advancement in Electrical and Electronic Engineering (ICAEEE)}

Robiul Islam , Al Amin, Aniqua Nusrat Zeeren, "Enhancing Bangla Language Next Word Prediction and Sentence Completion through Extended RNN with Bi-LSTM Model On N-gram Language", 3rd International Conference on Advancement in Electrical and Electronic Engineering (ICAEEE),

Md Robiul Islam, Md Mahamodul Islam, Mst. Suraiya Afrin, Anika Antara, Nujhat Tabassum and Al Amin, "PhishGuard: Enhancing Cybersecurity with Convolutional Neural Networks for Phishing URL Detection" 3rd IEEE International Conference on Artificial Intelligence for Internet of Things (AIIoT),

Competitive Programming

ACM ICPC Dhaka Regional | *Data Structure and Algorithms* **November 2022**
- It is one of the most prestigious programming contests in the world, each year among thousands of teams only some specific teams are selected for this contest
- I was lucky to participate in this well-known contest from my university

National Collegiate Programming Contest | *Graph, Tree, DSA* **October 2020**
- It is one of the renowned contests in my country, from the huge amount of teams only some specific university teams can participate in the contest

All Solved Progblems | *Codeforces, Uva, CodeChef* **Apr 2029 – Present**
- I've solved more than 1500 problems using various data structures and algorithms [Ref1] [Ref2] [Ref3]
- Participated in more than 500 online programming contests and 15 onsite programming contests [Ref4] [Ref5] [Ref6] [Ref7]

Select Honors and Awards

Deans Awards **January 2019,2020,2021,2023**
- Every year this award is given to those students whose CGPA is greater than 3.75 and I got this award for my four academic years for maintaining the highest CGPA

1st Runner-up of Intra Department Programming Contest **November 2019**
- In each year department of Computer Science and Engineering arranged a department programming contest among all the students and I've secured 1st runner-up in that contest after solving 4 problems among 6

PreCodeFest-Chapmions **November 2021**
- In 2021 UU organized this contest and my team Brain_Not_Found secured the first position among 20 teams and 60 participants

RIot Center Flug Hunt **October 2022**
- This is one of the finest Capture the Flug (CTF) contests in Bangladesh and my team participated in this contest and secured 25th position among 98 teams

LeetCon **May 2023**
- I was able to participate in this contest where from thousands of universities only 30 teams got selected to participate and my team secured 18th position in this contest

Technical Skills

Languages: Python, C++, C, PHP, Laravel, ReactJs, Dart, Flutter HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio
Technologies/Frameworks: Pytorch, Keras, Tensorflow, Scikit-learn, Numpy, Pandas, Matplotlib, Github, LaTex

Leadership / Extracurricular

President   **Spring 2022 – Fall 2022**
Programming Club   *Uttara University*
- This club is one of the biggest clubs in my university. Being a president of this club, I've organized a couple of programming contests, took numerous classes on data structure and algorithms

Secretary   **Spring 2021 – Fall 2021**
IEEE Student Branch   *Uttara University*
- Being a part of an International organization. I was able to arrange a programming contest among the EEE and CSE departments

Co-convenor   **Spring 2022 – Fall 2022**
Binary Fest   *Uttara University*
- Binary Fest is one of the biggest occasions along with Pitha Utshob, each year hundreds of students participate in this event. I was lucky to be a part of this. I was champion of a programming contest and a member of the champion football team