MD MOHAIMINUL ISLAM

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RESEARCH INTERESTS

My areas of interest are Systems, Security, Software Engineering, Graph Theory, Machine Learning, Distributed Systems etc.

WORK EXPERIENCE

Lecturer,   United International University(UIU)   March 2022 - present

- Undergraduate courses instructed -
    – Software Testing and Quality Assurance[Summer - Fall 2022, Spring - Summer 2023]
    – Data Structure and Algorithms I [Spring - Summer 2022]
    – Object Oriented Programming [Summer 2023]
    – Discrete Mathematics [Spring 2022, Spring 2023]
    – System Analysis and Design Laboratory [Spring - Fall 2022, Spring - Summer 2023]
    – Database Management Systems Laboratory [Summer 2022, Spring 2022]
    – Software Engineering Laboratory[Spring 2023]
    – Advanced Object Oriented Programming Laboratory[Spring 2023]
    – Digital Logic Design[Fall 2022]

- Academic advisor of more than 150 students.
- Member of the coordination committee and the judge panel of UIU CSE project show.

Software Engineer,   REVE Systems   Mar 2021 - Mar 2022

- Full stack developer working on spring boot, vue js, mySQL, MongoDB
- Worked on several R&D projects such as -
    – Implementing a semi-microservice based architecture on existing systems.
    – Algorithmic optimization of pre-existing services.
    – Developing application layer security protocols for finTech services.

SELECTED PROJECTS

- A Federated learning based NIDS system
    – Personal project for CSE6813: Network Security course. A MLP trained in a federated learning approach on NSL KDD Dataset. [Github]

- World's Hardest Game Learner
    – Group project for CSE472: Machine Learning Sessional(Undergrad).A self-learning agent was trained using reinforcement deep-Q learning algorithm to avoid enemies and reach it's goal. [Github]

- Online Marketplace
    – E-commerce website built on Laravel framework. [Github]

- Business Digitization Service
    – Professional project. Developed a platform to buy/sell IP telephony services.

- Validated Fees Collection Platform(VFCP)
    – Professional project. A B2B web application for digital bill generation and collection.

RESEARCH EXPERIENCE

Research Grants

- Project Code: UIU-IAR-02-2022-SE-06
  – Sponsor: Institute of Advanced Research(IAR), UIU
  – Total Awards: 490,000 BDT(5,000 USD approx.)
  – Duration: 14 months(Feb 2023- Apr 2024)
  – PI: **Md. Mohaiminul Islam**, Co-PI: Md. Saiful Bari Siddiqui(BracU)

Undergraduate Thesis

- Supervisor: Dr. Muhammad Abdullah Adnan
- Thesis title: *"Automated Audio-Visual Speech Corpus Creation From Publicly Available Sources For Bangla Language"*

STANDARDIZED TEST SCORES

GRE   Sep 2022
– Quantitative: 167(87th %), Verbal: 159(81st %), AWA: 4.0

TOEFL IBT   Nov 2021
– Total: 111
– Reading: 29, Listening: 29, Speaking: 29, Writing: 24

EDUCATION

2021 - Present	Master's Degree(Part-time) in Computer Science and Engineering from **Bangladesh University of Engineering and Technology(BUET)** (Current CGPA: 3.75/4.0)	
2016 - 2021	Bachelor's Degree in Computer Science and Engineering from **Bangladesh University of Engineering and Technology(BUET)** (CGPA: 3.55/4.0)	
2015	Higher Secondary School Certificate from Chattogram Board	(GPA:5.0/5.0)
2013	Secondary School Certificate from Chattogram Board	(GPA:5.0/5.0)

SKILLS

<u>**Technical Skills**</u>
Programming: Java, C/C++, Python, PHP, Assembly, Matlab
Databases: MySQL, MongoDB, Oracle
Scripting: HTML, CSS, Javascript, LaTeX, Shell, bash
Packages: OpenCV, Pandas, Numpy, Scikit-learn
Frameworks: Spring, Laravel, Vue, React, React native
Project Management: JIRA, trello
Version-Control: Git, Bitbucket, Gitlab

Co-Curricular Activities

7th Bangladesh National Physics Olympiad	Member, Academic team and Panel of Judges.
5th Bangladesh National Physics Camp	Participant
Paradox Physics School,Chattogram	Founder and Core Member
Badhan,BUET Zone	Volunteer and active blood donor

Awards and Scholarships

5th Bangladesh Physics Olympiad	Winner, National and Regional Rounds
4th,3rd,2nd Bangladesh Physics Olympiad	Champion, Regional Round
Bangladesh Mathematical Olympiad	Champion(2014),1st Runner-up(2015), 2nd Runner-up(2013)
Govt. Scholarship	Higher Secondary Scholarship(2016-2020)
Govt. Scholarship	Secondary Scholarship(2013-2015)

References

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Relation : Professor

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Relation : Academic advisor

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Relation : Professional/Head of the Department