

# MD MOHAIMINUL ISLAM

 Mahim05078 |  Md Mohaiminul Islam |  mohaiminmahim |  +880 1843-707534

## RESEARCH INTERESTS

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

## WORK EXPERIENCE

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**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

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- [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

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## 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

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**GRE** Sep 2022

- Quantitative: 167(87<sup>th</sup> %), Verbal: 159(81<sup>st</sup> %), AWA: 4.0

**TOEFL IBT** Nov 2021

- Total: 111
- Reading: 29, Listening: 29, Speaking: 29, Writing: 24

# EDUCATION

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2022 - Present	Master’s Degree(Part-time) in Computer Science and Engineering from <b>Bangladesh University of Engineering and Technology(BUET)</b> (Current CGPA: 3.75/4.0)	
2016 - 2021	Bachelor’s Degree in Computer Science and Engineering from <b>Bangladesh University of Engineering and Technology(BUET)</b> (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

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## Technical Skills

- Programming:** Java, C/C++, Python, PHP, Assembly, Matlab  
**Databases:** MySQL, MongoDB, Oracle  
**Scripting:** HTML, CSS, Javascript, L<sup>A</sup>T<sub>E</sub>X, 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

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

## AWARDS AND SCHOLARSHIPS

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

## REFERENCES

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### **Dr. A. B. M. Alim Al Islam**

Professor, Department of Computer Science  
and Engineering  
Bangladesh University of Engineering and  
Technology, Dhaka 1000, Bangladesh  
☎ +880 181-7533953  
✉ [alim\\_razi@cse.buet.ac.bd](mailto:alim_razi@cse.buet.ac.bd)  
Relation : Professor

### **Dr. Salekul Islam**

Professor and Head of the Department of Computer Sci-  
ence and Engineering  
United International University,  
United City, Madani Ave, Dhaka 1212, Bangladesh  
✉ [salekul@cse.uiu.ac.bd](mailto:salekul@cse.uiu.ac.bd)  
Relation : Professional/Head of the Department

### **Dr. M. Sohel Rahman**

Professor, Department of Computer Science  
and Engineering  
Bangladesh University of Engineering and  
Technology, Dhaka 1000, Bangladesh  
☎ +880 155-2389480  
✉ [msrahman@cse.buet.ac.bd](mailto:msrahman@cse.buet.ac.bd)  
Relation : Academic advisor