

Md. Ahsan Habib

Lecturer, CSE, KUET | Khulna, Bangladesh
+88 01773756759 | mahabib@cse.kuet.ac.bd



Career Objective	Skilled, knowledgeable, and qualified computer science graduate interested in cryptography and blockchain . Seeking a challenging Ph.D. position to enrich my knowledge, skills, and abilities by solving real-life problems while being resourceful, innovative, and flexible.		
Education	Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh		
	<i>M. Sc. in Computer Science & Engineering</i>	Jan 2021 – Mar 2023	
	CGPA: 3.92 out of 4.00		
	Thesis: A Study on a Blockchain-Based Secure Medical E-Record Sharing System		
	Supervisor: Prof. Dr. Kazi Md. Rokibul Alam		
	<i>B. Sc. in Computer Science & Engineering</i>	Mar 2016 – Mar 2020	
	CGPA: 3.91 out of 4.00 (2 nd place out of 121)		
	Thesis: Physarum-Inspired Bicycle Lane Network Design in Congested Mega City		
	Supervisor: Prof. Dr. Muhammad Aminul Haque Akhand		
Research Interest	Blockchain, Applied Cryptography, Security & Privacy, Post-Quantum Cryptography, Cyber Security, Quantum-Secured Blockchain.		
Publication 2023	<ol style="list-style-type: none">1. M. A. Habib and M. M. H. Manik, “A technique to avoid Blockchain Denial of Service (BDoS) and Selfish Mining Attack,” 5th International Conference on Blockchain Computing and Applications (5th <i>BCCA</i>), IEEE, Kuwait, 2023. DOI: 10.1109/BCCA58897.2023.103388812. S. Hasan, M. A. Habib, A. Roy, and A. T. M. Shifat, “Sociala: A Incentivized Decentralized Social media for Writers Based on Blockchain using modified Delegated Proof of Stake,” 10th International Conference on Networking, Systems and Security (10th <i>NSysS</i>), ACM, Bangladesh, 2023. DOI: 10.1145/3629188.36291983. M. Ali, M. A. Habib, K. M. R. Alam, and Y. Morimoto, “Color Image Encryption based on Multiple Chaotic Maps and Substitution Box”, 2nd International Conference on Big Data, IoT and Machine Learning (2nd <i>BIM</i>), Taylor and Francis, Bangladesh, 2023.4. M. A. Habib, and M. M. H. Manik, " Blockchain-Enabled Secure Land Record Management System with a new Lightweight Cryptosystem based on Hybrid Chaotic Map," <i>Blockchain: Research and Applications</i>, Elsevier, 2023 (under review). (Q1)5. A. T. M. Shifat, M. A. Habib, S. Hasan and A. Roy, “QEdu: A Quantum-Safe Blockchain Framework to Secure and Verify Educational Credentials,” 26th International Conference on Computer and Information Technology (26th <i>ICCIT</i>), IEEE, Bangladesh, 2023 (accepted). (Rank – C)6. M. N. T. Akhand, M. A. Habib, and K. M. R. Alam, "Analyzing Cryptocurrency Price Trends for Real-Time Price Predictions," 26th International Conference on Computer and Information Technology (26th <i>ICCIT</i>), IEEE, Bangladesh, 2023 (accepted). (Rank – C)7. M. M. H. Manik, A. Sagor, M. A. Habib, M. M. Touhid, T. Ahmed, M. Z. Islam, and F. Haque, "Redefining Crime Record Storage: An Advanced Architecture Harnessing the Power of Blockchain Technology," 26th International Conference on Computer and Information Technology (26th <i>ICCIT</i>), IEEE, Bangladesh, 2023 (accepted). (Rank – C)8. A. Roy, M. A. Habib, S. Hasan, and A. T. M. Shifat “A Scalable Cross-Border Payment System based on Consortium Blockchain Ensuring Auditability,” 6th International Conference on Electrical Information and Communication Technology (6th <i>EICT</i>), IEEE, Bangladesh, 2023 (accepted).9. M. T. Hasan, M. A. Habib, K. M. R. Alam, and M. N. Razzaque, “Data Trading System Using Blockchain and Oracle Network,” 6th International Conference on Electrical Information and Communication Technology (6th <i>EICT</i>), IEEE, Bangladesh, 2023 (accepted).10. M. N. Razzaque, K. M. R. Alam, M. A. Habib and M. T. Hasan, “Revolutionizing E-Voting Security with Blockchain-Backed Decentralized Authorization,” 6th International Conference on Electrical		

11. **M. A. Habib**, M. M. H. Manik and S. Zaman, "A Blockchain-based Technique to Prevent Grade Tampering: A University Perspective," 3rd International Conference on Electrical, Computer and Communication Engineering (3rd ECCE), IEEE, Bangladesh, 2023, pp. 1-6. DOI: [10.1109/ECCE57851.2023.10101502](https://doi.org/10.1109/ECCE57851.2023.10101502)
- 2022 12. **M. A. Habib**, K. M. R. Alam, and Y. Morimoto, "A Secure Medical Record Sharing Scheme Based on Blockchain and Two-fold Encryption," 25th International Conference on Computer and Information Technology (25th ICCIT), IEEE, Bangladesh, 2022, pp. 78-83. DOI: [10.1109/ICIT57492.2022.10054827](https://doi.org/10.1109/ICIT57492.2022.10054827) (Rank – C)
13. M. S. Shahariar, P. Banik, and **M. A. Habib**, "A Secure Land Record Management System using Blockchain Technology," 25th International Conference on Computer and Information Technology (25th ICCIT), IEEE, Bangladesh, 2022, pp. 557-562. DOI: [10.1109/ICIT57492.2022.10054925](https://doi.org/10.1109/ICIT57492.2022.10054925) (Rank – C)
14. M. M. Hossen Manik, F. Haque, M. M. A. Hashem, **M. A. Habib**, M. Zahirul Islam, and T. Ahmed, "A Hybrid Framework for Sentiment Analysis from Bangla Texts," 25th International Conference on Computer and Information Technology (25th ICCIT), IEEE, Bangladesh, 2022, pp. 517-522. DOI: [10.1109/ICIT57492.2022.10054952](https://doi.org/10.1109/ICIT57492.2022.10054952) (Rank – C)
15. **M. A. Habib**, M. A. H. Akhand, and M. A. S. Kamal, "Emotion Recognition from Microblog Managing Emoticon with Text and Classifying using 1D CNN", *Journal of Computer Science*, vol. 18, no. 12, pp. 1170-1178, 2022. DOI: [10.3844/jcssp.2022.1170.1178](https://doi.org/10.3844/jcssp.2022.1170.1178) (Scopus)
16. A. C. Dhar, A. Roy, **M. A. Habib**, M. A. H. Akhand, and N. Siddique, "Transformer Deep Learning Model for Bangla-English Machine Translation," in Proc. of 2nd International Conference on Artificial Intelligence: Advances and Applications. Algorithms for Intelligent Systems (2nd ICAIAA), Springer, Singapore, 2022. DOI: [10.1007/978-981-16-6332-1_24](https://doi.org/10.1007/978-981-16-6332-1_24)
- 2021 17. M. A. H. Akhand, **M. A. Habib**, M. A. S. Kamal, and N. Siddique, "Physarum-Inspired Bicycle Lane Network Design in a Congested Megacity," *Applied Sciences*, MDPI, vol. 11, no. 15: 6958, 2021. DOI : [10.3390/app11156958](https://doi.org/10.3390/app11156958) (Web of Science, IF:2.7, Q2)
18. J. Islam, M. A. H. Akhand, **M. A. Habib**, M. A. S. Kamal, N. Siddique "Recognition of Emotion from Emoticon with Text in Microblog Using LSTM," *Advances in Science, Technology and Engineering Systems Journal (ASTESJ)*, vol. 6, no. 3, pp. 341-348, 2021. DOI: [10.25046/aj060340](https://doi.org/10.25046/aj060340)
19. M. B. Mredul, **M. A. Habib**, M. A. H. Akhand, and M. A. S. Kamal, "Network Repair Crew Scheduling Using Benders Decomposition Method: A Case Study of Dhaka City" in Proc. of International Conference on Information and Communication Technology for Sustainable Development (ICICT4SD), IEEE, Bangladesh, February 27-28, 2021. DOI: [10.1109/ICICT4SD50815.2021.9396831](https://doi.org/10.1109/ICICT4SD50815.2021.9396831)
- 2019 20. **M. A. Habib**, M. M. Islam, M. N. Kabir, M. B. Mredul, and M. Hasan, "Staircase Detection System for Visually Impaired People: A Hybrid Approach," *Revue d'Intelligence Artificielle*, vol. 33, no. 5, pp. 327-334, 2019. DOI: [10.18280/ria.330501](https://doi.org/10.18280/ria.330501) (Scopus, Q3)
- 2018 21. Md. Nakibul Alam, Md. Milon Islam, **M. A. Habib**, M. B. Mredul, "Staircase Detection Systems for the Visually Impaired People: A Review," *International Journal of Computer Science and Information Security (IJCSIS)*, Vol. 16 No. 12, pp. 13-18, 2018.

Professional Experience	Lecturer	Feb 2022 – Present
	<i>Computer Science & Engineering, Khulna University of Engineering & Technology</i>	
	Lecturer	Oct 2020 – Jan 2022
	<i>Computer Science & Engineering, Green University of Bangladesh</i>	
Awards & Scholarships	Best Paper Award, 3 rd ECCE 2023.	
	University Faculty Dean's Award, Session – 2015-16, 2016-17, 2017-18 and 2018-19. Regional Champion (Khulna) & Global Nominee – NASA Space App Challenge 2019.	
Technical Skills	Language	C, C++, Java, Swift, Python, Assembly, PHP, JavaScript, HTML, CSS
	IDE	Android Studio, Xcode (iOS), VS Code, Eclipse
	DBMS	Oracle 10g, MySQL, SQLite

	Others	Git, CISCO Packet Tracer, OpenCV, OpenGL	
Problem Solving	Handle:	nayan_082 (Codeforces, UVA, Vjudge), mdnayan1507082 (Leetcode) Total 350+ problem solved Participated in Intra KUET Programming Contest, 2016 & 2019.	
Projects	Blockchain	aBC Tools: Kotlin, Firebase Description: A distributed application for exploring the Proof-of-Work based Blockchain system. DeLTA Tools: Kotlin, Firebase Description: An decentralized land trading application based on Blockchain.	
	ML	Skincer Tools: Java, Firebase Description: A skin cancer detection mobile application.	
	AI	BeatMySum Tools: Python, AI Description: A human vs PC card game with minimax and alpha-beta pruning algorithm.	
	Graphics	CarDesign Tools: OpenGL, C++ Description: A classic project for computer graphics.	
	Compiler	sCompiler Tools: C++ Description: A simple compiler project.	
	iOS	Tic-Tac-Toe Tools: Swift Description: An iOS app of a well-known game.	
	Web	KUET Debating Society Website Tools: PHP, HTML, CSS, JavaScript Description: A website based on the working procedure of a Debating Society.	
	Android	Calculator Tools: Java Description: It's an android application for addition, subtraction, multiplication and division AlarmMe Tools: Java, SQLite Description: It is an application for maintaining the daily class routine of a student.	
	Database	Bloodbank Tools: Oracle DBMS, PL/SQL Description: A simple Database project based on blood donation organization's workflow.	
		Hardware	Smart Stick Tools: Raspberry Pi Description: This project is to build a smart stick for visually impaired people that help to detect staircase
Services	Professional Activities		
	Committee Member	Int. Conf. on Electrical Information and Communication Technology (EICT)	2023
	Program Committee	Intra KUET Programming Contest (IKPC)	2023
	Coach	ACM International Collegiate Programming Contest (ICPC)	2023
	Judge	BDApps	2022
	Mentor	CTO Forum	2022
	Program Committee	Intra KUET Programming Contest (IKPC)	2022
	Committee Member	Int. Conf. on Electrical Information and Communication Technology (EICT)	2021
	Program Committee	Intra KUET Programming Contest (IKPC)	2021
	Institutional Activities (As Faculty)		
	Treasurer	CSE Association of KUET	2022-Present
	Moderator	Special Group Interested in Programming Contest (SGIPC)	2020-Present
	Moderator	Hardware Acceleration Club of KUET (HACK)	2020-Present
	Institutional Activities (As Student)		
	Member	CSE Association of KUET	2016-2020
	Vice President	Hardware Acceleration Club of KUET (HACK)	2018-2019
	Member	Special Group Interested in Programming Contest (SGIPC)	2016-2019
	Member	Hardware Acceleration Club of KUET (HACK)	2016-2017
	Executive Member	Organization of KUET Sports (OKS)	2018-2019
	Organizer	National High School Programming Contest (NHSPC)	2017

Reference

Dr. Kazi Md. Rokibul Alam

Professor, Department of Computer Science and Engineering

Khulna University of Engineering & Technology, Khulna 9203, Bangladesh

Email: rokib30@gmail.com, rokib@cse.kuet.ac.bd

Contact No: +880-1714087216
Website: www.kuet.ac.bd/cse/rokib/

Dr. Muhammad Aminul Haque Akhand

Professor, Department of Computer Science and Engineering
Khulna University of Engineering & Technology, Khulna 9203, Bangladesh
Email: akhandkuet@yahoo.com, akhand@cse.kuet.ac.bd
Contact No: +880-1714087205
Website: www.kuet.ac.bd/cse/akhand/

Dr. Pintu Chandra Shill

Professor, Department of Computer Science and Engineering
Khulna University of Engineering & Technology, Khulna 9203, Bangladesh
Email: pintu@cse.kuet.ac.bd
Contact No: +880 1676-303920
Website: www.kuet.ac.bd/cse/pintu/
