

# Md. Ahsan Habib

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<b>Career Objective</b>	Skilled, knowledgeable, and qualified computer science PhD student interested in <b>Blockchain and Quantum Computing</b> . Seeking a challenging position to enrich my knowledge, skills, and abilities by solving real-life problems while being resourceful, innovative, and flexible.		
<b>Education</b>	<b>Tulane University, USA</b> <i>PhD in Computer Science</i> Fall 2024 – Present <b>Research Area:</b> Scaling Solutions in Blockchain System <b>Supervisor:</b> <a href="#">Prof. Dr. Lu Peng</a> <b>Khulna University of Engineering &amp; Technology (KUET), Khulna, Bangladesh</b> <i>MSc in Computer Science &amp; Engineering</i> Jan 2021 – Mar 2023 <b>CGPA:</b> 3.92 out of 4.00 <b>Thesis:</b> A Study on a Blockchain-Based Secure Medical E-Record Sharing System <b>Supervisor:</b> <a href="#">Prof. Dr. Kazi Md. Rokibul Alam</a> <i>BSc in Computer Science &amp; Engineering</i> Mar 2016 – Mar 2020 <b>CGPA:</b> 3.91 out of 4.00 (2 <sup>nd</sup> place out of 121) <b>Thesis:</b> Physarum-Inspired Bicycle Lane Network Design in Congested Mega City <b>Supervisor:</b> <a href="#">Prof. Dr. Muhammad Aminul Haque Akhand</a>		
<b>Research Interest</b>	Blockchain, Applied Cryptography, Security & Privacy, Post-Quantum Cryptography, Cyber Security, Quantum-Secured Blockchain.		
<b>Publication 2023</b>	<ol style="list-style-type: none"><li>1. <b>M. A. Habib</b> and M. M. H. Manik, "A technique to avoid Blockchain Denial of Service (BDoS) and Selfish Mining Attack," 5<sup>th</sup> International Conference on Blockchain Computing and Applications (5<sup>th</sup> <b>BCCA</b>), IEEE, Kuwait, 2023. DOI: <a href="https://doi.org/10.1109/BCCA58897.2023.10338881">10.1109/BCCA58897.2023.10338881</a></li><li>2. S. Hasan, <b>M. A. Habib</b>, A. Roy, and A. T. M. Shifat, "<b>Sociala: A Incentivized Decentralized Social media for Writers Based on Blockchain using modified Delegated Proof of Stake</b>," 10<sup>th</sup> International Conference on Networking, Systems and Security (10<sup>th</sup> <b>NSysS</b>), ACM, Bangladesh, 2023. DOI: <a href="https://doi.org/10.1145/3629188.3629198">10.1145/3629188.3629198</a></li><li>3. M. Ali, <b>M. A. Habib</b>, K. M. R. Alam, and Y. Morimoto, "Color Image Encryption based on Multiple Chaotic Maps and Substitution Box", 2<sup>nd</sup> International Conference on Big Data, IoT and Machine Learning (2<sup>nd</sup> <b>BIM</b>), Taylor and Francis, Bangladesh, 2023.</li><li>4. <b>M. A. Habib</b>, 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). (<b>Q1</b>)</li><li>5. A. T. M. Shifat, <b>M. A. Habib</b>, S. Hasan and A. Roy, "<b>QEdu: A Quantum-Safe Blockchain Framework to Secure and Verify Educational Credentials</b>," 26<sup>th</sup> International Conference on Computer and Information Technology (26<sup>th</sup> <b>ICCIT</b>), IEEE, Bangladesh, 2023 (accepted). (<b>Rank – C</b>)</li><li>6. M. N. T. Akhand, <b>M. A. Habib</b>, and K. M. R. Alam, "Analyzing Cryptocurrency Price Trends for Real-Time Price Predictions," 26<sup>th</sup> International Conference on Computer and Information Technology (26<sup>th</sup> <b>ICCIT</b>), IEEE, Bangladesh, 2023 (accepted). (<b>Rank – C</b>)</li><li>7. M. M. H. Manik, A. Sagor, <b>M. A. Habib</b>, M. M. Touhid, T. Ahmed, M. Z. Islam, and F. Haque, "Redefining Crime Record Storage: An Advanced Architecture Harnessing the Power of Blockchain Technology," 26<sup>th</sup> International Conference on Computer and Information Technology (26<sup>th</sup> <b>ICCIT</b>), IEEE, Bangladesh, 2023 (accepted). (<b>Rank – C</b>)</li><li>8. A. Roy, <b>M. A. Habib</b>, S. Hasan, and A. T. M. Shifat "A Scalable Cross-Border Payment System based on Consortium Blockchain Ensuring Auditability," 6<sup>th</sup> International Conference on Electrical Information and Communication Technology (6<sup>th</sup> <b>EICT</b>), IEEE, Bangladesh, 2023 (accepted).</li></ol>		

9. M. T. Hasan, **M. A. Habib**, K. M. R. Alam, and M. N. Razzaque, "Data Trading System Using Blockchain and Oracle Network," 6<sup>th</sup> International Conference on Electrical Information and Communication Technology (6<sup>th</sup> *EICT*), 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," 6<sup>th</sup> International Conference on Electrical Information and Communication Technology (6<sup>th</sup> *EICT*), IEEE, Bangladesh, 2023 (*accepted*).
11. **M. A. Habib**, M. M. H. Manik and S. Zaman, "A Blockchain-based Technique to Prevent Grade Tampering: A University Perspective," 3<sup>rd</sup> International Conference on Electrical, Computer and Communication Engineering (3<sup>rd</sup> *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," 25<sup>th</sup> International Conference on Computer and Information Technology (25<sup>th</sup> *ICCIT*), IEEE, Bangladesh, 2022, pp. 78-83. DOI: [10.1109/ICCIT57492.2022.10054827](https://doi.org/10.1109/ICCIT57492.2022.10054827) (*Rank – C*)
13. M. S. Shahariar, P. Banik, and **M. A. Habib**, "A Secure Land Record Management System using Blockchain Technology," 25<sup>th</sup> International Conference on Computer and Information Technology (25<sup>th</sup> *ICCIT*), IEEE, Bangladesh, 2022, pp. 557-562. DOI: [10.1109/ICCIT57492.2022.10054925](https://doi.org/10.1109/ICCIT57492.2022.10054925) (*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," 25<sup>th</sup> International Conference on Computer and Information Technology (25<sup>th</sup> *ICCIT*), IEEE, Bangladesh, 2022, pp. 517-522. DOI: [10.1109/ICCIT57492.2022.10054952](https://doi.org/10.1109/ICCIT57492.2022.10054952) (*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 2<sup>nd</sup> International Conference on Artificial Intelligence: Advances and Applications. Algorithms for Intelligent Systems (2<sup>nd</sup> *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.

<b>Professional Experience</b>	<b>Assistant Professor</b> <i>Computer Science &amp; Engineering, Khulna University of Engineering &amp; Technology</i>	Jun 2022 – Present
	<b>Lecturer</b> <i>Computer Science &amp; Engineering, Khulna University of Engineering &amp; Technology</i>	Feb 2022 – Jun 2024
	<b>Lecturer</b> <i>Computer Science &amp; Engineering, Green University of Bangladesh</i>	Oct 2020 – Jan 2022
<b>Awards &amp;</b>	Best Paper Award, 3 <sup>rd</sup> <i>ECCE</i> 2023.	

Scholarships	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

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**Reference****Dr. Lu Peng**

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