

Muhammed Muminul Hoque

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About Me

I am Muhammed Muminul Hoque, a dedicated and ambitious Computer Science and Engineering graduate, currently seeking to further my education through an MSc in Cybersecurity. With a deep passion for advancing digital security, my research interests focus on **cryptography, data privacy and protection, blockchain security, lattice-based cryptography and post-quantum cryptography**. These areas reflect my commitment to developing secure, innovative solutions for the evolving challenges in cybersecurity. I am excited to apply my knowledge, skills, and research ambitions to contribute meaningfully to the field while continuing my academic journey at the graduate level.

Education

Bachelor of Science in Computer Science & Engineering GPA: 3.35/4.00
University of Dhaka, Bangladesh (3.58 in last 60 credits)
February 2019 – March 2024

Project Work

Developing A Machine Learning Based Speech Emotion Recognizer 2024

- This system identifies and classifies emotions from speech, providing real-time emotional insights. Users can analyze spoken content, gain immediate feedback on emotional tone, and manage data.
- Tools Used: JupyterLab, Python
- Supervisor: Prof. Md. Alamgir Hossain

Research Experience

Conference Paper: [In Press]

Ekram Hossain, Puja Rani Saha, **Muhammed Muminul Hoque**, Md. Saiful Islam, Jonayed Al-Faruk, Md. Alamgir Hossain (2025). Privacy Preserving and Secure Digital Identity Verification Mechanism: AES-Encrypted Smart NID with Two-Factor Protection Against Unauthorized Access

- At 4th International Conference on Electrical, Computer, and Communication Engineering - (ECCE - 2025), CUET, Chattogram, Bangladesh.

Journal: [Submitted]

Md. Saiful Islam, Puja Rani Saha, **Muhammed Muminul Hoque**, AKM Bahalul Haque, Tushar Kanti Saha, Ekram Hossain (2025) Quantum-Resistant Blockchain: Enhancing Blockchain Security with ROUND5, A Lattice-based Cryptosystem

- Submitted into Q1 Journal

Technical Skills

Programming Languages: C/C++, Python, Bash

Familiar: HTML, CSS, Machine Learning

Database: MySQL

Others: MS Word, MS Excel, MS PowerPoint, Git, GitHub

Tools and Frameworks: Kali Linux, Metasploit, Nmap, Wireshark, and Packet Analysis

Training Experiences & Certifications

Cyber Security For Professionals, Byte Capsule

February 2023–August 2023

- This six-month program equipped professionals with essential skills in threat analysis, risk management, network security, cryptography, and ethical hacking. Hands-on exercises and expert-led lectures for practical expertise and theoretical knowledge.

Standardized Test Scores

International English Language Testing System (IELTS)

14th December, 2024

- Overall: 6.5, Listening: 8, Reading: 6, Writing: 6, Speaking: 6

Extra-curricular Activities, Awards, and Achievements

- Mec Computer Club (February 2020 - March 2024)
- BATCH TOPPER in 6 Month's Self-learning based Training Program on Cybersecurity (Feb – Aug 2023)
- Champion of Invisible CTF 2023 (18th September 2023)
- 3rd Place at MEC CSE Carnival 2020 Programming Competition
- Ranked in the Top 6% in TryHackMe

References

Professor Md. Alamgir Hossain

Principal

(Former Principal, Mymensingh Engineering College)

Faridpur Engineering College, University of Dhaka

Faridpur, Bangladesh

Email: principal@fec.ac.bd

AKM Bahalul Haque

Research Supervisor

Junior Researcher at LUT University & Lecturer at

North South University, Bangladesh

Lappeenranta and Lahti, Finland

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