Mubasshir Ahmed

Software Engineer | Researcher

in Mubasshir Ahmed | ⬡ mubasshir00 | **G** Mubasshir Ahmed | ⬠ mubasshir00

+8801860959559 | mubasshirahmed66@gmail.com | Dhaka, Bangladesh

PROFESSIONAL EXPERIENCE

• **Engineering Resources International (ERI) Ltd, Dhaka**   *Feb 2023 - Present*
Software Engineer   Dhaka, Bangladesh
  ◦ Lead backend development team of Resources Tracking Information System (**RTIS**), a platform which is used by over 90 factories and multiple clothing brands across Bangladesh, Pakistan, India, Denmark, USA, Ireland, China.
  ◦ Lead a subteam to deliver the Employee Management System from the ground up, driving the team to deliver on time, while maintaining clean, modular, and well-documented code.

• **Ethics Advance Technology Limited**   *Sept 2023 - August 2024*
Lab Instructor   Dhaka, Bangladesh
  ◦ Instructed the "Cybersecurity Essentials for IT Professionals in Banks and Financial Institutions" program is offered by Innovate College of Business and Technology, Canada

• **Gaming Hub (Game Streaming Platform)**   *2022 Dec - July 2024*
Co-Founder and CTO   Dhaka, Bangladesh

• **Apprise IT, Dhaka**   *Feb 2022 - Jan 2023*
Junior Software Engineer   Dhaka, Bangladesh
  ◦ Developed backend API and updated features, as well as did unit test and integration test for **Hive Live** and **Poco Live** and developed a management tool for the admin panel using NodeJS, ExpressJS, React, and MongoDB.

• **Vision Mash**   *Dec 2021 - April 2022*
Software Engineer (Part-time)   Dhaka, Bangladesh
  ◦ Worked as a contractual Front End Developer, responsible for developing UI using HTML, CSS, and Bootstrap, and developed UI as a client requirement.

• **BDEMR Solutions. Corp.**   *Sept 2020 - Jan 2022*
Junior Software Engineer   Remote
  ◦ Worked as a full-stack developer, developed ERP software UI using ReactJS for hospitals, and fixed backend-related issues.

ACADEMIC EXPERIENCE

• **Institute for Advanced Research (IAR) Lab, United International University**   *Jan 2024 - Present*
Research Assistant   Dhaka, Bangladesh
  ◦ Conduct research and develop methods for preserving patient anonymity using advanced cryptographic techniques within a blockchain framework.
  ◦ Implement and integrate InterPlanetary File System (IPFS) for decentralized and secure storage of patient data, ensuring data integrity and accessibility.
  ◦ Perform rigorous testing and validation of the blockchain-based system to ensure the effectiveness of privacy-preserving measures and fraud detection mechanisms.

EDUCATION

• **North South University ,Dhaka, Bangladesh**
Bachelor of Science in Computer Science and Engineering (Passing Year - 12/2023)
Thesis - **Storage and Maintenance of Sensitive Data using Homomorphic Encryption**
  ◦ CGPA: 2.63/4.00 (79%)

Publications

[J.1] Mazharul Islam, **Mubasshir Ahmed**, Rajesh Palit, Mohammad Shahriar Rahman, and Salekul Islam, **Fraud Detection in Privacy Preserving Health Insurance System using Blockchain Technology**, Accepted in *Engineering Reports*, Wiley, 2025.

[C.3] Mazharul Islam, **Mubasshir Ahmed**, Shakib Hossain, Niaz Ashraf Khan, **A Blockchain-based Medical Record Storage System for Healthcare Data Management**, Accepted in *International Conference on Advances in Communication Technology and Computer Engineering* Nov 2024.

[C.2] Mazharul Islam, **Mubasshir Ahmed**, and Niaz Ashraf Khan, **Fault Detection and Diagnostics of Air Handling Unit in Hospital Building Using Machine Learning**, Accepted and Presented in *15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, Mandi, India, Jul 2024.

[C.1] Mazharul Islam, **Mubasshir Ahmed**, and Rajesh Palit, **Storage and Maintenance of Sensitive Data using Homomorphic Encryption**, In *16th International Conference on Security of Information and Networks (SIN)*, Jaipur, India, 2023 Nov 20, pp. 1-6, doi: 10.1109/SIN60469.2023.10474775.

[B.1] Hasib, Kazi Tamzid Akhter Md, Rakibul Hasan, **Mubasshir Ahmed**, and AKM Bahalul Haque. **Blockchain Based Smart Card for Smart City**, In *Enabling Technologies for Effective Planning and Management in Sustainable Smart Cities. Springer*, doi: 10.1007/978-3-031-22922-0_7

Skills

- **Programming Languages :** JavaScript, HTML5, CSS3, C++ ,Python
- **Web Frameworks :** ExpressJS , NestJS , NodeJS , ReactJS
- **Database Systems :** PostgreSQL,MongoDB,Redis , MySQL
- **Testing :** Jest, Mocha, Chai,Postman
- **Cloud Technologies :** AWS (EC2, S3, SQS, SNS, VPC etc),Contabo
- **DevOps & Version Control :** Docker, Git
- **Miscellaneous:** Academic Research, Machine Learning, NLP , Cyber Security , Cryptography , Blockchain

Additional Skills

- **Language Proficiency :** IELTS 6.5 (CEFR: B2) - Reading: 7.0, Writing: 6.5, Speaking: 6.0, Listening: 6.0

Honors and Awards

- **Winner & Global Nominee**, *NASA Space Apps Challenge 2023* 🌐
- Participant, *KIBO Robot Programming Challenges*
- **2nd Runner-Up**, *NASA Space Apps Challenge 2022* 🌐
- **1st Runner-Up**, *HackNSU Season 4*
- **SEANM Finalist**, *Microsoft Imagine Cup* 🌐
- **1st Runners-Up**, *NASA Space Apps Challenge* 🌐

Volunteer Experience

- **NSU_Inception**   *(March 2019 - Dec 2023*
  Trainer & Participant   Dhaka , Bangladesh

Research Interest

Cyber Security, Data Security and Privacy, Modern Cryptography, Programming Languages, Software Engineering, Cloud Computing, Database, Internet of Things (IoT) and Machine Learning

References

- **Dr. Rajesh Palit**
  Professor and Ex-Chairman, Department of Electrical & Computer Engineering, North South University
  Email: rajesh.palit@northsouth.edu
  Relationship: Thesis Supervisor & Supervisor at Institute for Advanced Research (IAR) Lab

- **Dr. Salekul Islam**
  Professor, Department of Electrical & Computer Engineering, North South University
  Email: salekul.islam@northsouth.edu
  Relationship: Supervisor at Institute for Advanced Research (IAR) Lab