# **Mubasshir Ahmed**

# Software Engineer | Researcher

in Mubasshir Ahmed | ♠ mubasshir00 | **G**Mubasshir Ahmed | ♦ mubasshir00

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#### ACADEMIC EXPERIENCE

# • Institute for Advanced Research (IAR) Lab, United International University

Jan 2024 - Sept 2025

Research Assistant

Dhaka, Bangladesh

- Developing privacy-preserving mechanisms using cryptography and blockchain to secure sensitive healthcare and health insurance data.
- Implementing machine learning models while ensuring data privacy and compliance with industry regulations.

# PROFESSIONAL EXPERIENCE

# • Engineering Resources International (ERI) Ltd, Dhaka

Feb 2023 - July 2025

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.

# **EDUCATION**

# Victoria University , Sydney, Australia

Master of Applied Information Technology (Enrollment Year: 2025)

# North South University ,Dhaka, Bangladesh

Bachelor of Science in Computer Science and Engineering (Passing Year - 2023)

Thesis - Storage and Maintenance of Sensitive Data using Homomorphic Encryption

· CGPA: 2.63/4.00 (79%)

- [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

Trainer & Participant

(March 2019 - Dec 2023 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. Raiesh 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