

# Munshi Rejwan Ala Muid

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<https://rezwan-muid.github.io>

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## Academic Credentials

- **PhD in Computer Science** *Aug 2023 – Present*
  - **Virginia Tech**, Blacksburg, VA
  - **CGPA:** 4.00/4.00
  - **Courses:** Blockchain Technologies, Advanced Topics in Systems (Network Security), System and Software Security, Fundamentals of Information Security (Cryptography), Advanced Topics in Data and Information, Advanced Topics in HCI (User Privacy Focus), Ethics and Professionalism in CS, Statistics in Research.
- **Bachelor of Science in Computer Science and Engineering** *Jan 2017 – Mar 2021*
  - **Islamic University of Technology (IUT)**, Gazipur, Bangladesh
  - **CGPA:** 3.82/4.00

## Publications

- **Munshi Rejwan Ala Muid**, Taejoong Chung, Thang Hoang. *AccuRevoke: Enhancing Certificate Revocation with Distributed Cryptographic Accumulators*, *IEEE Symposium on Security and Privacy (Oakland'25)*, San Francisco, USA, May 2025.
- **Munshi Rejwan Ala Muid**, Afrin Jubaida, Mehedi Hasan Onik, Hamim Hamid. *Cloud-based Electronic Health Record Sharing and Access Controlling Blockchain Architecture using Data De-identification Method*, *International Journal of Medical Engineering and Informatics*, Volume-16, Pages-4, Publisher – “Inderscience Publishers (IEL)”, July 2024.
- Riasat Azim, Shulin Wang, Shoaib Ahmed Dipu, Nazmin Islam, **Munshi Rejwan Ala Muid**, Md Fazla Elahe, Mei Li. *A patient-specific functional module and path identification technique from RNA-seq data*, *Computers in Biology and Medicine*, Volume-158, Pages-106871, Publisher- “Pergamon”, May 2023.

## Teaching and Research Experiences

- **Graduate Research Assistant**, Virginia Tech, Blacksburg, VA, USA *May 2024 – Jul 2024*
  - **Research Topic:** Designing a new Certificate Revocation Strategy using Bilinear Pairing Cryptographic Accumulator in a Distributed Settings.
  - **Current Research Topic:** Solving the Metadata Privacy issue in Email.

- **Graduate Teaching Assistant**, Virginia Tech, Blacksburg, VA, USA *Aug 2023 – Present*
  - **Conducted Courses:** Database Management Systems, Intermediate Software Design, Fundamentals of Information Security (Cryptography)
  - Assisted with grading, student mentorship, and course instruction
- **Lecturer**, United International University, Bangladesh *Jan 2023 – Jul 2023*
  - **Courses:** Structured Programming (C), Discrete Mathematics, Digital Logic Design, Structured Programming Lab (C), Simulation and Modelling Lab, Theory of Computation
- **Lecturer**, Northern University Bangladesh *Apr 2021 – Dec 2022*
  - **Courses:** Mathematical Analysis for Computer Science, Software Engineering, Database Management System, Database Management System Lab, Algorithms, Algorithms Lab, Communication Engineering, Web Programming
- **Contractual Lecturer**, BRAC University, Bangladesh *Sep 2022 – Dec 2022*
  - **Courses:** Programming Language-1 (Python)
- **Part-time Lecturer**, Islamic University of Technology (IUT), Bangladesh *Nov 2021 – Mar 2022*
  - **Courses:** Peripherals and Interfacing Lab, Software Validation and Verification Lab, Visual Programming Lab (Java)
- **Part-time Lecturer**, Ahsanullah University of Science and Technology, BD *Jul 2021 – Oct 2021*
  - **Courses:** Database Management System Lab
- **On-campus Industrial Attachment (Cyber Security)** *Nov 2019 – Dec 2019*
  - **Supervisor:** Shahee Mirza, Chief Cyber Operations Officer, Beetles Cyber Security Ltd, Bangladesh
  - Conducted vulnerability analysis using Nmap, Metasploit, Wireshark, Nessus, achieving a 98% threat identification rate.
  - Implemented MITRE ATT&CK Model strategies to a 0% breach rate in simulated cyber attacks

## Technical Skills

- **Programming Languages & Tools:** C, C++, Java, Python, JavaScript, PHP, Minizinc, Solidity, CUDA
- **Software and Platforms:** AWS, AutoCAD, XAMPP, Packet Tracer, Google Colab, SQL
- **Crypto Libraries:** NTL, PBC, ZMQ (For MPC), CGBN

## Projects

- **Research:**
  - AccuRevoke: New TLS certificate revocation strategy using distributed cryptographic accumulators. ([Source Code](#))

- **Software:** Departmental Shop Management (C), Cafeteria Management (C++), E-commerce Website (HTML/CSS/JavaScript/PHP), Result Management System (SQL/PLSQL), Machine Learning Application (Python)
- **Hardware:** Automated Attendance System (Java, Arduino, Fingerprint Sensor) – [GitHub](#)