

CV

Dr. RASHED MAZUMDER

B. Sc. (DU), M. Sc. (JAIST, Japan), Ph. D. (JAIST, Japan)

MCP, MCSA, MCITP, SCSA (P1), CCNA (2012)



Assistant Professor

Institute of Information Technology (IIT)

Jahangirnagar University, Savar, Dhaka-1342, Bangladesh

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Educational Background.

1. **Ph. D.** in Information Science (2014-2017, Major. Information Security and Cryptography)
School of Information Science, **Japan Advanced Institute of Science and Technology (JAIST)**
2. **Master** in Information Science (2012-2014, Major. Information Security and Cryptography)
School of Information Science, **Japan Advanced Institute of Science and Technology (JAIST)**
- *Global Human Resource Development Program Certifications* (at JAIST, Japan) , 2014
3. **B. Sc.** in Computer Science and Engineering (1999-2003, Passed 2005)
Department of Computer Science and Engineering, Faculty of Engineering and Technology
University of Dhaka, Dhaka-1000, Bangladesh
4. Higher Secondary School (1997-1999)
Rifles Public School and College, Dhaka Board
5. Secondary School and College (1986-1997)
University Laboratory School and College, Dhaka Board

Teaching Experiences.

1. **Associate Professor** (April, 2018 - November, 2018)
Department of Information and Communication Technology (ICT)
Mawlana Bhashani Science and Technology University (MBSTU), Tangail
2. **Assistant Professor** (2012-2018)
Department of Information and Communication Technology (ICT)
Mawlana Bhashani Science and Technology University (MBSTU), Tangail
3. **Lecturer** (2010-2012)
Department of Information and Communication Technology (ICT)
Mawlana Bhashani Science and Technology University (MBSTU), Tangail

Technical Experiences.

1. **Consultant, IT** (2009-2010)
Link Online Solution, Safi Complex, Mogbazar, Dhaka-1217
and, **Senior Instructor**,
New Horizon Computer Learning Center-Bangladesh Branch (2009-2010)
Momtaz Plaza, Dhaka
2. **Resident Court Information Technology Expert (RCITE)** (2007-2008 (31st December))
A Project of World Bank, Under Ministry of Law, Justice and Parliamentary Affairs
District Judge Court, Chittagong
3. **IT Executive** (2006-2007)
Euro Automation
Ispahani Center, Lalkhan Bazar, Chittagong

Research Experiences

1. Doctoral Research Fellow (DRF)
From the year of 2014-2017
Japan Advanced Institute of Science and Technology, Ishikawa, Japan
2. Teaching Assistant 2013 to 2016
 - Teaching Assistant for I 216: Computational Complexity and Discrete Mathematics
 - Teaching Assistant for I 461S: Current Topics in Information Security
 - Assisted the instructor during lecture.
 - Provided in-class support to graduate students.
 - Provided in-class support to the students of University of Kyoto, Osaka, NAIST
3. Arranging Summer School Program at Miyaji Lab, JAIST
 - Worked as a TA From the year of 2012-2017

Teaching Experiences Part Time in Bangladesh

List of Institutions:

- North-South University (NSU)
- Southeast University (SEU)
- Peoples University of Bangladesh (PUB)
- Dhaka International University (DIU)
- Asian University of Bangladesh (AUB)
- Sheikh Burhanuddin Post Graduate College (SBPGC)

Name of Courses:

Advanced Networking, MIS, Data and Computer Communication, Computer Network, Software Engineering, Computer Architecture, Digital Electronics, Operating System, Microprocessor and Assembly Language, E-commerce and web Programming, Discrete Mathematics.

Professional (IT) Certifications.

1. Cisco Certified of Network Associate, CCNA (Expired on June, 2012)
2. Microsoft Certified Professional (MCP)
3. Microsoft Certified System Administrator (MCSA)
4. Microsoft Certified Technology Specialist (MCTS)
5. Microsoft Certified IT Professional (MCITP)

Skills in the Domain of Networking, Database and Others.

1. C, MYSQL, VB, Assembly Language, PHP, HTML.
2. **Networking:** IP Addressing, Router Configuration, Switch Configuration, V-LAN, Router Security, ACL, OSPF, RIP, EIGRP, Switching Protocol, STP, NAT, Wireless Networking, Hub, Bridge, OSI, TCP-IP setting, DNS, DHCP, SAMBA configuration, cabling, mail-server, Windows-2003 server Management & Maintaining, RAS Server, VPN Server, RADIUS Server, Exchange Server, Windows Mail Server Configuration, Mail Server Management, Sun Solaris (UNIX): Service Administrations (SMC, SVCS, SVCADM), Package Administrations, Patch Administrations, Basic File Permissions, Unix File System, Process Management & Scheduling, CRONTAB, Printer, User Account Administrations.
3. **Telecommunications:** RSS, NSS, OSS, SS#7 signaling, GSM, CDMA, Antenna, GPRS
4. **Database:** Oracle9i SQL, Basic Query, DML, Rollback, SPSS.

Attending Professional Courses.

1. UNIX Essentials Featuring the Solaris 10 OS Solaris-UNIX, American International University of Bangladesh (AIUB): CEC Sun Authorized Institution (Year of 2009)
2. Cisco Certified Network Associate Network Administrations, New Horizons Computer Learning Center, NHCLC (Year of 2009)
3. Introduction to ORACLE 9i SQL SQL Query, DML, IBCX-PRIMAX (Year of 2009)
4. Implementing, Managing & Maintaining Windows 2003 Server, Network Infrastructure, New Horizons Computer Learning Center, NHCLC (Year of 2009)
5. Intensive Course in Basic English, Department of English, University of Dhaka, 1997

Research Interest.

1. Information Security and Cryptography
Symmetric Key, Asymmetric key Cryptography, Authenticated Encryption, Cryptographic Hash, Small Domain Encryption
2. Computer Networking
Computer Networking, Network Designing, Access Control List, Routing Protocol

Article Publications.

1. **Rashed Mazumder**, Atsuko Miyaji, Chunhua Su: A simple authentication encryption scheme, *Concurrency Computation: Practical Experience*, Wiley Publishers, 2017, Page: 1-10
2. Jiageng Chen, **Rashed Mazumder**, Atsuko Miyaji, Chunhua Su: Variable message encryption through blockcipher compression function, *Concurrency Computation: Practical Experience*, Wiley Publishers, 2017, Page: 1-10
3. **Rashed Mazumder**, Atsuko Miyaji, Chunhua Su: Probably Secure Keyed-Function based Authenticated Encryption Schemes for Big Data, *International Journal of Foundations of Computer Science*, (Accepted), 2017
4. **Rashed Mazumder**, Mohammad Shahriar Rahman, Muhammad Shahin Uddin, Mohammad Badrul Alam Miah: Importance of Generic Construction of BlockCipher based Compression Func., *ULAB Journal of Science and Engineering*, ULAB Publishers, Vol. 7, 2017, Page: 10-16
5. **Rashed Mazumder**, Atsuko Miyaji: A New Scheme of Blockcipher Hash, *Special Section on Information and Communication System Security*, IEICE, 2016, Page:796-
6. S. A. Mamun, A. L. M. A. Awal, A. H. M. S. Islam, M. A. Hossain, T. Afroze, S. Sultana, **Rashed Mazumder**, A Primordial Approach to Develop an Automated Irrigation System in Bangladesh, *Journal of Environmental Science and Natural Resources*, 2011, Page: 157-162
7. Md. Badrul Alam Miah, **Rashed Mazumder**, S. M. Anamul Haque, Nazru Islam: A New Approach to Design 9 Segments Display for Bangla Numbers, *Canadian Journal on Electrical and Electronics Engineering*, Vol. 2, No. 12, 2011, Page: 593-
8. Meher Nigar, Md. Mahmudul Hasan, **Rashed Mazumder**, Surayia Pervin: Computation of DFT Using CORDIC Algorithm, *Journal of Bangladesh Electronic Society*, Vol. 6, No. 2, 2006, Page: 33-40

List of International Conferences.

1. Atsuko Miyaji, **Mazumder Rashed**, Tsuyoshi Sawada: A New (n, n) Blockcipher Hash Function: Apposite for Short Messages, *AsiaJCIS 2014, China*, IEEE-Xplore, Page: 56-63
2. Jiageng Chen, **Rashed Mazumder**, Atsuko Miyaji: A Single Key Scheduling Based Compression Function, *CRiSIS 2015, Greece*, LNCS, Springer, Page: 207-222
3. Atsuko Miyaji, **Mazumder Rashed**: A New $(n, 2n)$ Double Block Length Hash Function Based on Single Key Scheduling, *AINA, South-Korea 2015*, IEEE-Xplore, Page: 564-570
4. **Rashed Mazumder**, Atsuko Miyaji, Chunhua Su: An Efficient Construction of a Compression Function for Cryptographic Hash, *CD-ARES 2016, Austria*, LNCS, Springer, Page: 124-140

Continued

5. **Rashed Mazumder**, Atsuko Miyaji, Chunhua Su: A Blockcipher Based Authentication Encryption, CD-ARES 2016, *Austria*, LNCS, Springer, Page: 106-123
6. **Rashed Mazumder**, Atsuko Miyaji, Chunhua Su: A simple construction of encryption for a tiny domain message, CISS 2017, *Baltimore, USA*, IEEE-Xplore, Page: 1-6
7. Md. Zamilur Rahman, Md. Saiful Islam, Md. Shihab Uddin, Sharaban Tahora, **Rashed Mazumder**: An Interactive Disaster Recovery System Using Android Smartphone, Annual Conference and Seminar on Electronics and ICT for National Developmen, 3-4, October 2012, Atomic Energy Centre, *Dhaka, Bangladesh*

Members and Associate Members.

1. Associate Member, Bangladesh Computer Society
2. Member, Microsoft Certified Professional

Technical

1. Reviewer of IEICE Journal, Japan
2. Reviewer of Journal of Information Security and Applications, Elsevier
3. Organizing Member (Miyaji Lab, JAIST), ACNS-2017, PROVSEC-2016

Research and Travel Grants.

1. JAIST Research Grant
51st Annual Conference on Information Sciences and Systems (CISS), 2017, Baltimore, USA
2. Grant from Japan Association for Mathematical Sciences (JAMS)
 - 2.1. International Conference CD-ARES, 2016, Salzburg, **Austria**, 2016
 - 2.2. 29th IEEE International Conference AINA-2015, Gwangju, **South Korea**, 2015
 - 2.3. 9th Asia Joint Conference on Information security (AsiaJCIS 2014), **China**, 2014

Personal Information.

Father's Name: Prof. Dr. Rezaul Karim Mazumder

Mother's Name: Dilrout Banu

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Referee

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