

# Farhana Sarker

Assistant Professor and CSE Program Coordinator  
University of Liberal Arts Bangladesh (ULAB)  
Dhanmondi, Dhaka-1209, Bangladesh  
E-mail: farhana.sarker@ulab.edu.bd  
Cell: +88 01793599355

## Academic Qualification

**Ph.D. Computer Science**, (2009-2014). School of Electronics and Computer Science, University of Southampton, Southampton, UK.

**B.Sc. Computer Science and Engineering**, (2000-2004). Department of Computer Science and Engineering, Darul Ihsan University, Dhaka, Bangladesh (CGPA 3.89/4.00).

## Research Interest

- Linked Data
- Open Data
- Education
- Machine Learning
- Health
- Data Analytics

## Taught Courses

- Introduction to Computer Studies
- Structured Programming
- Object Oriented Programming
- System Analysis and Design
- Automata and Theory of Computation

## Employment History

**Assistant Professor and CSE Program Coordinator (Full time)** May 2017- to date

Department of Computer Science and Engineering, *University of Liberal Arts*, Bangladesh

- Responsible for teaching and tutoring Undergraduate courses, assessing course works and lab reports, conducting research, advising students, curriculum development and administrative works.
- Supervising students' projects.
- Courses Taught: Programming Languages (C and C++), System Analysis and Design.
- Administrative works.

**Assistant Professor (Full time)** May 2015- April 2017

Department of Computer Science and Engineering, *University of Liberal Arts*, Bangladesh

- Responsible for teaching and tutoring Undergraduate courses, assessing course works and lab reports, advising students and conducting research.
- Supervising students' projects.
- Courses Taught: Programming Languages (C and C++), Computer Fundamental Studies, System Analysis and Design, Operating System.

**Teaching Assistant / Part-time Lecturer** September 2010-December 2012

School of Electronics and Computer Science, *University of Southampton*, UK

- Teaching and assisting students in different courses including Structured Programming Language Java and C++, Programming Language C, Algorithms and Software engineering.

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- Evaluated quality and accuracy of quantitative assignments of 50+ size class of computer science and information system students
- Supervising student groups in their project work
- Exam invigilating
- One to One student support for poor performing students in their courses

## ***PhD Research student***

October 2009 – September 2014

School of Electronics and Computer Science, *University of Southampton*, Southampton, UK

## ***Academic Visitor/Researcher***

January 2009 – September 2009

Institute of Sound and Vibration Research (ISVR), *University of Southampton*, Southampton, UK

- Researched biomedical signal processing (neural signals)
- Completion of course work in the areas of quantitative analysis and research methodologies and pattern classifications

## ***Researcher***

October 2007 - September 2008

Department of Information Systems, College of Computer and Information Sciences (CCIS), *King Saud University*, Riyadh, Saudi Arabia

- Course work in the area of Software Engineering, Advance Algorithm, and Computer Network
- Research on automatic speech recognition for Arabic language
- Teaching and assisting students in undergraduate courses including Computer Network, Software Engineering and Programming language C and C++.
- Exam Invigilating

## ***Lecturer (Part-time)***

July 2005 - October 2007

Institute of Technical and Vocational Education and Training (TVET), *Ahsanullah University of Science and Technology (AUST)*, Dhaka, Bangladesh

- Teaching students in different courses including Programming language (C and C++), Database design and Algorithm

## ***Senior Application Engineer (Team Lead)***

August 2006 - October 2007

Telecom Applications, *ICE Technologies and Services Limited*, Dhaka, Bangladesh

- Lead a team of 5 software engineers
- Managed telecommunication billing software, Oracle database
- Updated daily database of the billing software of the company
- Drafted report for corporate clients
- Liaison with clients and foreign partners of the organization by phone, email, video conferencing and face-to-face
- Organized meeting with clients and other business partners

## ***IT Officer***

February 2005 - July 2006

Integrated Services Limited, *Sheba Phone*, Dhaka, Bangladesh

- Managed telecommunication billing software

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- Updated daily database of the billing software of the company
- Drafted report for company management
- Liaison with management and branch managers of the organization by phone, email and face-to-face

## Funded Projects

- **Deep-Depression**, Funded by Minister of ICT, Bangladesh, 2021 (Funding amount 12,000,00 BDT).
- **SMART Receptionist**, Funded by Minister of ICT, Bangladesh, 2019 (Funding amount 20,000,00 BDT).
- **What's Next**, Funded by Minister of ICT, Bangladesh, 2017 (Funding amount 12,000,00 BDT).
- **Virtual Health Service**, Funded by Minister of ICT, Bangladesh, 2016 (Funding amount 10,000,00 BDT).

## Awards

- **Ph.D. Scholarship**, School of Electronic and Computer Science, *University of Southampton*, UK, 2009-2013.
- **Distinguished Research Scholarships**, Prince Sultan Bin Abdulaziz International Program, *King Saud University*, Saudi Arabia, 2007-2008.
- **Best Performance Award**, *ICE Technologies and Services Limited*, Bangladesh, 2006-2007.
- **Turkey Govt. Ph.D. Scholarship**, *Istanbul Technical University*, Turkey, 2007-2011 (declined).
- **University Guild M.Sc. Scholarship**, *University of Trento*, Italy, 2006-2008 (declined).
- **Dean's list of Honor**, *Darul Ihsan University*, Bangladesh, 2003-2004.
- **Undergraduate Scholarship**, *Darul Ihsan University*, Bangladesh, 2000-2004.
- **District level scholarship (Talent Pool scholarship)** in class V and class VIII.

## Student Supervision

- Project supervision titled "Analysis of Social Network Engagement in Facebook for Predicting Students' Performance", Summer 2020, ULAB.
- Capstone project supervision titled "X-Translation: A peer to peer Language Translation Broadcasting System", Summer 2019-Fall 2019, ULAB.
- Project titled "Factors affecting students to learn the C programming Language", Spring 2019, ULAB.
- Project titled "Future with Wireless Technologies", Fall 2018, ULAB.
- Project titled "A review on Cyber-attacks and its preventive measures", Fall 2018, ULAB.
- More than 50 internship students supervised in their undergraduate program at ULAB.
- 15 students supervised in their undergraduate project in the university of Southampton, UK.

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## Technical Skills

- Programming languages: C, C++, Java, Python.
- Database Languages: Oracle, MySQL, SPARQL.
- Statistical and Data Mining Tool: SPSS, WEKA, Rapid Miner.
- Operating System: Windows, IOS, LINUX(Basic).

## Volunteer and Co-curricular Activities

- **Committee member (Lead)**, prepare the first draft for ULAB Open Education Resources (OER) Policy, August 2021.
- **Committee member**, Inclusion of Information Technology Engineers Examination (ITEE) syllabus in IT/CSE curriculum of Universities of Bangladesh, University Grant Commission (UGC), July-August 2021.
- **Self-Assessment Committee (SAC) member**, Computer Science and Engineering (CSE), University of Liberal Arts Bangladesh (ULAB), 2017-2018.
- **Technical Program committee member**, 2nd International Conference on Advanced Information and Communication Technology 2020 (ICAICT 2020), UIU, Dhaka, Bangladesh.
- **Organizing member**, The 3<sup>rd</sup> International Joint Conference on Computational Intelligence, ULAB, Bangladesh.
- **Technical Program committee member**, The 3<sup>rd</sup> International Joint Conference on Computational Intelligence, ULAB, Bangladesh.
- **Mentor and Judge**, NASA Space Apps Challenge 2017, 2019 and 2020, Bangladesh.
- **Reviewer**, International Conference on Computing Advancements (ICCA 2020), Dhaka, Bangladesh.
- **Technical Program committee member**, International Conference on Innovation in Engineering and Technology (ICIET) 2018, Dhaka University, Bangladesh.
- **Reviewer** of IEEE 4th International Conference on Control, Decision and Information Technologies, 2017, Barcelona, Spain.
- **Technical Program committee member** of IEEE WIECON-ECE 2017, BUET, Bangladesh.
- **Technical Program committee member** of 4th International Conference on Information and Communication Technology (ICoICT), Bandung, Indonesia.
- **Reviewer** of IEEE 3rd International Conference on Control, Decision and Information Technologies, 2016, Malta.
- **Editorial Assistant**, ULAB Journal of Science and Engineering, 2016-2017.
- **Technical Program committee member**, 2<sup>nd</sup> IEEE International Conference on Control, Decision and Information Technologies (CoDIT) 2016, Malta.
- **Mentor and Judge**, National ICT Hackathon for Women 2017.
- **Member**, Bangladesh UK Alumni Network (BUKAN), 2017-Present.
- **Advisor**, Computer Society, University of Liberal Arts Bangladesh (ULAB), 2016-2018.
- **Member**, IEEE Bangladesh Section, 2015-Present.
- **Member**, Women in Engineering (WIE), IEEE Bangladesh Section, 2015-Present.
- **Member**, Bangladesh Student Society, *University of Southampton*, UK, 2009-2014.

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- **Member**, Electronic and Computer Science Women Group, *University of Southampton*, UK, 2009-2014.
- **Member**, Theano Women's Group, *University of Southampton*, UK, 2009-2014.
- **Student Helper**, On-line Enrollment of International Students, *University of Southampton*, UK, 2010-2012.
- **Student Welcome Assistant**, *University of Southampton*, UK, 2010-2012.
- **International Office Photo Shot Volunteer**, *University of Southampton*, UK, August 2010.
- **Volunteer**, Career Fairs, *University of Southampton*, UK, 2010-2012.

## Publications

### Book Chapter

1. Farzana W., **Sarker F.**, Vaidyanathan R., Chau T., Mamun K.A., "Communication Support Utilizing AAC for Verbally Challenged Children in Developing Countries During COVID-19 Pandemic". In: Stephanidis C., Antona M., Ntoa S. (eds) HCI International 2020 – Late Breaking Posters. HCII 2020. Communications in Computer and Information Science, vol 1294. Springer, Cham. [https://doi.org/10.1007/978-3-030-60703-6\\_6](https://doi.org/10.1007/978-3-030-60703-6_6) (2020)
2. Farzana W., **Sarker F.**, Hossain Q.D., Chau T., Mamun K.A. "An Evaluation of Augmentative and Alternative Communication Research for ASD Children in Developing Countries: Benefits and Barriers". In: Stephanidis C., Antona M., Ntoa S. (eds) HCI International 2020 – Late Breaking Posters. HCII 2020. Communications in Computer and Information Science, vol 1294. Springer, Cham. [https://doi.org/10.1007/978-3-030-60703-6\\_7](https://doi.org/10.1007/978-3-030-60703-6_7) (2020).
3. Mithila Faruque, Mohammad Badruddozza, Moinul H. Chowdhury, **Farhana Sarker** and Khondaker A. Mamun, Feasibility of digital health services for educating the community people regarding lifestyle modification combating noncommunicable diseases. Published as book section in Information Systems and Applications incl. Internet/Web, and HCI LNISA, volume 11587), Norbert Streitz and Shin'ichi Konomi (eds.), Lecture Notes in Computer Science (LNCS, volume 11587) 312, DOI 10.1007/978-3-030-21935-2, Springer, Cham 2019.
4. F. Anowar, M. A. Helal, S. Afroj, S. Sultana, **F. Sarker** and K. A. Mamun, 2014. A critical review on World University ranking in terms of top four ranking systems, published as book section in New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering, K. Elleithy and T. Sobh (eds.), Lecture Notes in Electrical Engineering 312, DOI 10.1007/978-3-319-06764-3\_72, Springer International Publishing.

### Journal Papers

1. **Farhana Sarker**, Khondaker Abdullah Al Mamun 2021. Factors associated with low medication adherence in patients with Type 2 diabetes mellitus attending a tertiary hospital in Bangladesh, *Lifestyle Medicine*, Vol , Num , pages , DOI: .
2. Walia Farzana, **Farhana Sarker**, Tom Chau and Khondaker A. Mamun, Technological Advancement in AAC Modalities to Foster Communications of Verbally Challenged ASD Children: A Systematic Review, *IEEE Access*, 2020.
3. Ferdousi Sabera Rawnaque, Khandoker Mahmudur Rahman, Syed Ferhat Anwar, Ravi Vaidyanathan, Tom Chau, **Farhana Sarker**, Khondaker Abdullah Al Mamun, 2020. Technological Advancements and Opportunities in Neuromarketing: A Systematic Review, *Brain Informatics*, Vol 7, Num 1, pages 1-19, DOI: 10.1186/s40708-020-00109-x.

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4. Sumi FH, Dutta L and **Sarker F** 2019. Review on Cyber Attacks and its Preventive Measures. International Journal of Cyber Research and Education (IJCRE), Vol 1, Num 2, ISSN 2577-4816, DOI: 10.4018/IJCRE.
5. Sumi FH, Dutta L and **Sarker F** 2018. Future with Wireless Power Transfer Technology. Journal of Electrical and Electronics System. Vol 7, Num 4, DOI: 10.4172/2332-0796.1000279.
6. Mamun, K. A., **Sarker, F.**, Muhammad, G., 2009. A high resolution pitch detection algorithm based on AMDF and ACF, Journal of Scientific Research, Vol. 1, Num. 3, pp. 508-515.
7. Mamun, K. A., Sayeed, A. H. M., Yeasmin, S. and **Sarker, F.**, 2007. A Novel Segmented Display for Arabic Numerals, Journal of Computer Science, Vol. 1, Num. 1, pp. 44-47, IBAIS University, Dhaka, Bangladesh.
8. Mamun, K. A., Ahmmed, S., **Sarker, F.**, Saber, A. Y., 2007. Segmented Display for Alphanumeric Bangla, English and Arabic Characters, Research Journal of Applied Sciences, Vol. 2, Num. 4, pp. 522-529.

## Conference Papers

1. Fazla Rabbi Mashrur, Mohammad Tohidul Islam Miya, Ferdousi Sabera Rawnaque, Mahmudur Khandoker Rahman, Ravi Vaidyanathan, Syed Ferhat Anwar, **Farhana Sarker**, Khondaker A. Mamun, "MarketBrain: An EEG Based Intelligent Consumer Preference Prediction System", 43<sup>rd</sup> Annual International Conference of the IEEE engineering in Medical and biology Society (EMBC 2021), 1-5 November 2021, USA.
2. Nabila Kamal, **Farhana Sarker**, Khondaker A. Mamun, "A Comparative Study of Machine Learning Approaches for Recommending University Faculty", *2nd International Conference on Sustainable Technologies for Industry 4.0 (STI)*, 19-20 December, 2020, Dhaka, Bangladesh.
3. Nabila Kamal, **Farhana Sarkar**, Md. Saddam Hossain Mukta, Khondaker A. Mamun, "Predictive Analysis of the Effects of Personality Traits on an Academic Program", in the proceedings of the 2<sup>nd</sup> International Conference on Advanced Information and Communication Technology 2020 (ICAICT 2020), 28-29 November, United International University, Dhaka, Bangladesh.
4. Walia Farzana, **Farhana Sarker**, Khondaker A Mamun, "A Systematic Review on Augmentative and Alternative Communication Tools and Strategies to Aid Non-verbal ASD Children", in the proceedings of the 22nd Human Computer Interaction International (HCII 2020) Conference, 19-24 July 2020, Copenhagen, Denmark.
5. Walia Farzana, **Farhana Sarker**, Khondaker A Mamun, "An Evaluation of Augmentative and Alternative Communication Research for ASD Children in Developing Countries: Benefits and Barriers", 22nd Human Computer Interaction International (HCII 2020) Conference, 19-24 July 2020, Copenhagen, Denmark.
6. Mithila Faruque, Mohammad Badruddozza, Moinul H. Chowdhury, **Farhana Sarker** and Khondaker A. Mamun, Feasibility of digital health services for educating the community people regarding lifestyle modification combating noncommunicable diseases, HCII2019, Orlando, USA.

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7. **Farhana Sarker**, M. Mahruf C. Shohel, Farzana Anowar, Md Shamsul Alam, Khondaker A. Mamun, University Ranking System for Developing Countries: A Proposed Framework”, 2nd International Higher Education Studies Conference (IHEC 2017), Antalya, Turkey, October 12-14, 2017.
8. Ahnaf Hassan, Mohammad Nurul Huda, **Farhana Sarker**, Khondaker A. Mamun, “An overview of Brain Machine Interface research in developing countries: opportunities and challenges”, 5th International conference on Informatics, Electronics and Vision (ICIEV 2016), 13-14 May 2016, Dhaka, Bangladesh.
9. Rebeka Sultana, D.M. Anisuzzaman, **Farhana Sarker** and Khondaker A. Mamun, “Automated Credit Scoring System for Financial services in developing countries”, the 1st International Conference on Advanced Information and Communication Technology 2016 (ICAICT 2016), 16-17 May 2016, Chittagong, Bangladesh.
10. Eshtiaq Ahmed, Ashraful Islam, **Farhana Sarker**, Mohammad Nurul Huda and Khondaker A. Mamun, “A road to independent living with smart homes for people with disabilities”, the 5th International conference on Informatics, Electronics and Vision (ICIEV 2016), 13-14 May 2016, Dhaka, Bangladesh.
11. Md. TazimulHoque, Md. Rifat-Ut-Tauwab, Md. FashiulKabir, **Farhana Sarker**, Mohammad Nurul Huda and Khondaker A. Mamun, “Automated Bangla Sign Language Translation System: Prospects, Limitations and Applications”, the 5th International conference on Informatics, Electronics and Vision (ICIEV 2016), 13-14 May 2016, Dhaka, Bangladesh.
12. Sanjida Nasreen Tumpa, Najia Manjur, **Farhana Sarker**, Khondaker A. Mamun, “Smart-NDA: A Cloud based Framework for Smart Device Integrated Automated Neurodevelopmental Disorder Screening Tool”, International Conference on Medical Engineering, Health Informatics and Technology (MediTec 2016), December 17-18 2016, Dhaka, Bangladesh.
13. Mohammad Nasfikur Rahman Khan, Mohammad Nazmul Hasan, Kaiser Habib, Marufa Hossain, **Farhana Sarker** and Khondaker Abdullah Al Mamun, “Bolte Chai: An Augmentative and Alternative Communication Device for Enhancing Communication for Nonverbal Children”, International Conference on Medical Engineering, Health Informatics and Technology (MediTec 2016), December 17-18 2016, Dhaka, Bangladesh.
14. Farzana Anowar, Ashraful Islam, Eshtiaq Ahmed, **Farhana Sarker**, Khondaker A. Mamun, A Proposed Framework for University Ranking System of Bangladesh, In Proc. of 1<sup>st</sup> National Seminar of Feni University, Feni, Bangladesh, June 2015.
15. Ashraful Islam, Eshtiaq Ahmed, Ashfaquul Islam, Jie Lu, **Farhana Sarker**, Khondaker A. Mamun, Decoding Human Brain States Using Transcranial Doppler Ultrasonography, In proceedings of IEEE 2nd International Conference on Electrical Engineering and ICT (iEEiCT2015), May 2015, Dhaka, Bangladesh, pages 115.
16. Ashfaquul Islam, Ashraful Islam, **Farhana Sarker**, K. A. Mamun, E-learning: The Revolution of Distance Learning in Bangladesh, In Proc. of 2nd National Conference on Natural Sciences and Technology (NCNST2015), Chittagong, Bangladesh, April 2015.
17. Farzana Anowar, Ashraful Islam, **Farhana Sarker** and Khondaker A. Mamun, A review on Diabetes Self-management Applications for Android Smartphones: Perspective of Developing Countries”, In 2<sup>nd</sup> International Conference on Electrical Information and Communication Technology (EICT’15), 2015.

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18. **Sarker, F.**, Tiropanis, T. and Davis, H. 2014. Linked Data, Data Mining and External Open Data to Predict at-risk Students. 2<sup>nd</sup> IEEE Internal Conference on Control, Decision and Information Technologies, CoDIT'14. Metz, France, Nov 03-05, 2014 (Invited paper).
19. **Sarker, F.**, Tiropanis, T. and Davis, H. 2013. Exploring Student Predictive Model that Relies on Institutional Databases and Open Data Instead of Traditional Questionnaires. In the proceedings of 3rd International Workshop on Learning and Education with the Web of Data (LILE2013), WWW'13 Companion. Rio de Janeiro, Brazil, May 13-17, 2013, pp. 413-418.
20. **Sarker, F.**, Tiropanis, T. and Davis, H. 2013. Students' Performance Prediction by Using Institutional Internal and External Open Data Sources. In the proceedings of 5th International Conference on Computer Supported Education (CSEDU2013). Aachen, Germany, May 06-08, 2013, 6.
21. Anowar, F., Helal, M. A., Afroj, S., Sultana, S., **Sarker, F.** and Mamun, K. A. 2013. A critical review on World University ranking in terms of four ranking systems, In the proceedings of International Conferences on Engineering Education, Instructional Technology, Assessment, & E-learning in the 9th Annual International Joint Conferences on Computer, Information, Systems Sciences, & Engineering (CISSE 2013), University of Bridgeport, Connecticut, USA, Dec 12-14, 2013.
22. **Sarker, F.**, Tiropanis, T. and Davis, H. 2012. A Linked Data Infrastructure to Support Student Retention, Progression and Completion, Multidisciplinary Postgraduate Research Showcase 2012, University of Southampton, UK, 2012.
23. **Sarker, F.**, Davis, H. and Tiropanis, T. 2010. A Review of Higher Education Challenges and Data Infrastructure Responses, In the proceedings of 3rd International Conference of Education Research and Innovation (ICERI2010), Madrid, Spain, Nov 15-17, 2010, pp. 1473-1483.
24. **Sarker, F.**, Davis, H. and Tiropanis, T. 2010. The Role of Institutional Repositories in addressing Higher Education Challenges. In the proceedings of Second International Workshop on Semantic Web Applications in Higher Education (SEMHE 2010), University of Southampton, Southampton, UK, Nov 3, 2010.
25. Mamun, K. A., Siddika N. K., Al-Ameen, M. F., **Sarker, F.** and Akbar, M. M. 2006. Segment and Semi Circle Based Geometric Characters of Bangla and An Efficient Relevant Method of Character Recognition, In the proceedings of the 4th International Conference on Electrical and Computer Engineering (ICECE 2006), pp. 193-196, Dhaka, Bangladesh.

## Conference / Workshop Attended

- A 3 day workshop on Institutional Open Education Resources (OER) Policy organized by University Grants Commission (UGC), Bangladesh and Commonwealth Educational Media Centre for Asia (CEMCA), India from 09-11 August 11, 2021.
- A workshop on Capacity Building of Higher Education Teachers of Bangladesh on using and creating the Open Education Resource organized by University Grants Commission (UGC), 29 July 2021.
- The 22nd Human Computer Interaction International (HCII 2020) Conference, 19-24 July 2020, Copenhagen, Denmark (virtual).
- The 3<sup>rd</sup> International Joint Conference on Computational Intelligence (IJCCI 2019), ULAB, Bangladesh.
- Speaker in *Women Empowerment for a better Nation* organized by Innovation Forum Bangladesh, March 2021.



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- Delivered keynote speech in the *World's longest virtual Career Conference 2020* organized by Innovation Forum Bangladesh, December 2020.
- The 22nd Human Computer Interaction International (HCII 2020) Conference, 19-24 July 2020, Copenhagen, Denmark (virtual).
- The 3<sup>rd</sup> International Joint Conference on Computational Intelligence (IJCCI 2019), ULAB, Bangladesh.
  
- IEEE WIE International Leadership Summit, BUET, Dhaka, Bangladesh, October 12-13, 2018.
- International Conference on Medical Engineering, Health Informatics and Technology (MediTec 2016), December 17-18 2016, Dhaka, Bangladesh.
- International conference on Informatics, Electronics and Vision (ICIEV 2016), 13-14 May 2016, Dhaka, Bangladesh.
- International World Wide Web Conference (WWW'13), Rio de Janeiro, Brazil, May 13-17, 2013.
- International Conference on Computer Supported Education (CSEDU2013). Aachen, Germany, May 06-08, 2013.
- Multidisciplinary Postgraduate Research Showcase 2012, University of Southampton, UK, May 03, 2012.
- International Conference of Education Research and Innovation (ICERI2010), Madrid, Spain, Nov 15-17, 2010.
- International Workshop on Semantic Web Applications in Higher Education (SEMHE 2010), University of Southampton, Southampton, UK, Nov 3, 2010.

## Personal Information

- Date of Birth: August 18, 1981
- Nationality: Bangladeshi (by birth)
- Marital Status: Married
- Permanent Address: Village: Patower, Police Station: Nangalkot, District: Comilla, Bangladesh
- Present address: Flat # B2, House # 35, Road # 10/A, Dhanmondi, Dhaka-1209, Bangladesh