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Resume of **Prof. Dr. Uzzal Kumar Acharjee**

Department of Computer Science & Engineering
Jagannath University

Career Objective:

Looking for a role that needs holistic IT skills and management skills as well, with the opportunity to exercise personal versatile expertise to build bridge between academic learning and corporate needs while keeping in mind the ever-changing influence of Global Information Technology.

Academic Experiences:

1. Professor

Dept. of Computer Science and Engineering,
Jagannath University

Duration: July 2017 to till date.

2. Associate Professor

Dept. of Computer Science and Engineering,
Jagannath University

Duration: October 2012 to July 2017.

3. Assistant Professor

Dept. of Computer Science and Engineering,
Jagannath University

Duration: March 2010 to September 2012.

4. Associate Professor

Dept. of Computer Science and Engineering, The People's University of Bangladesh,

Duration: October 2007 to March 2010.

5. Assistant Professor

Dept. of Computer Science and Engineering, The People's University of Bangladesh,

Duration: March 2005 to September 2007.

6. Lecturer

Dept. of Computer Science and Information Technology, The University of Comilla, Comilla

Duration: September 2000 to February 2005

Administrative Experiences:

1. Chairman

Dept. of Computer Science and Engineering,
Jagannath University

Duration: September 2016 to September 2019

2. Director

Networking & IT Division
Jagannath University

Duration: February 2014 to till date

3. Chairman

Dept. of Computer Science and Engineering,
Jagannath University

Duration: June 2010 to August 2013

4. Chairman

Dept. of Computer Science and Engineering,
The People's University of Bangladesh

Duration: July 2005 to March 2010

5. Co-ordinator

Dhaka University Computer Association
Dhaka University

Duration: January 2000 to March 2002

Academic Qualifications:

Ph.D

Department of Applied Physics, Electronics & Communication Engineering, University of Dhaka.

Research Title: “Broadband Multimedia Satellite System: Architecture, Algorithm & Implementations” under the supervision of Prof. Dr. Shahida Rafique, Applied Physics, Electronics & Communication Engineering, University of Dhaka.

M.Phil

Department of Applied Physics, Electronics & Communication Engineering, University of Dhaka.

M. Sc.

University of Dhaka, 1997 Examination held in 1999), Department of Computer Science, First Class 4th position

B.Sc. (Honors)

University of Dhaka, 1996 (Examination held in 1997), Department of Applied physics & Electronics,

H.S.C.

BangoBanduCollege, Gopalganj, 1993, Science Group, Dhaka Board, First Division

S.S.C.

S.M. Model Govt. High School. Gopalganj, 1991, Science Group, Dhaka Board, First Division

Publications:

Journal Papers

1. Arnisha Akter, **Uzzal Kumar Acharjee**, “Cyber Bullying Detection and Classification using Multinomial Naïve Bayes and Fuzzy Logic”, Published in the Journal of Modern Education and Computer Science Press (MECS), 2019

2. Md Zulfiker Mahmud; Md Tarikul. Islam; Ali F. Almutairi; Md Samsuzzaman; **U.K. Acharjee**; Mohammad Tariqul Islam, “A Parasitic Resonator-Based Diamond-Shaped Microstrip Antenna for Microwave Imaging Applications”, Published in Journal of Electronics 2019, Volume 8, Issue 4, 434, **Impact Factor: 2.110**

3. **Dr. Uzzal Kumar Acharjee** and Sheikh Mohammad Shahnoor, “Behavior Analysis of Proactive And Reactive Protocols in Vehicular Adhoc Network using NS2”, **Published** in the Journal of Computer Science and Engineering Jagannath University (JCSEJNU), 2019, Dhaka, Bangladesh

4. Md. Amirul Islam, Sajal Halder, and **Uzzal Kumar Acharjee**, “*Periodic Activity Monitoring Using Radio Frequency Tag Arrays*”. **Published** in the Journal of Computer Science and Engineering Jagannath University (JCSEJNU), 2019, Dhaka, Bangladesh.
5. Md. Hafizur Rahman, M. N. Zaman, **Uzzal K. Acharjee**, Md. Nasim Akhtar, “Enhancing Performance and Throughput of Database Related Application using Data Classification Technique”, (*Published in the Jagannath University Journal of Science*).
6. Md. Manowarul Isam, Md. Ashraf Uddin, Md. Rifat Hasan, **Uzzal K. Acharjee**, “Route Recovery Mechanism for Mobile Ad Hoc Network: A Backup node based Approach”, (*Published in the Jagannath University Journal of Science*), Volume-4, Number-11, January 2015.
7. Fatema Siddika, Md. Anwar Hossen, Sajeed Saha, **Uzzal K. Acharjee**, “IPV6 deployment status in Bangladesh and way towards migration”, (*Published in the Jagannath University Journal of Science*), Volume-4, Number-1, ISSN No.:2224-1694, January-2015.
8. Md. Zulfiker Mahamud, **Uzzal K. Acharjee**, Fahmida Islam, “Bit Error Analysis of OFDM for Different Modulation Techniques”, (*Published in the Jagannath University Journal of Science*), Volume-4, Number-1, ISSN No.:2224-1694, January-2015.
9. Md. Sorab Ali, Nadeem Ahmed, **Uzzal K. Acharjee**, “Efficiency analysis of Adaptive filtering algorithms for eliminating noise in ECG signal”, (*Published in the Jagannath University Journal of Science*), Volume-3, Number-1, ISSN No.:2224-1694, January-2014.
10. Sajeed Saha, **Uzzal K. Acharjee**, Md. Tahzib-Ul-Islam, “A survey on wireless mesh network and its challenges at the transport layer”, (*Published in the International of Computer Engineering & Technology*), Volume-5, Issue-8, ISSN No.:0976-6367, August -2014.
11. **Uzzal K. Acharjee**, Anis Ahmed, Shahida Rafique, “Enhancing the performance of TCP over broadband multimedia satellite networks”, (*Published in the Dhaka University Journal of Applied Science & Engineering*), 2011.
12. **Uzzal K. Acharjee**, Anis Ahmed, Shahida Rafique, “Performance Analysis of Navigation by Applying Back Propagation Algorithm With The Integration of GPS, LEO and GEO”, (*Bangladesh Journal of Physics*), V-7, 2009.
13. **Uzzal K. Acharjee**, Anis Ahmed, Shahida Rafique, “Implementation and Comparison of IPSec Protocols for Secure Broadband Multimedia Satellite System”, (*Published in Journal of the Bangladesh Electronics Society*), V-9, June 2009.
14. Sayed Hafizur Rahman, Md. Abu Zaman, Md. Masud Reza, **Uzzal K. Acharjee**, “Symbiotic Relationship between Human and Robot”, (*Published in the Bangladesh Journal of Physics*), V-7, 2009.
15. **Uzzal K. Acharjee**, Shareeful Islam, “Implementation and Comparison of IPSec Protocols for Secure Data Communication in Ad Hoc Networks”, (*Published in the Journal of The People’s University of Bangladesh*), V-4, N-1, June- 2009.

16. **Uzzal K. Acharjee**, Bipul K.Sen ,Md. Noor Nabi, “ A Simplified Unicode Based Writing System for Computerized Bangla Text Processing”, (*Published in the Journal of The People’s University of Bangladesh*),V-3, N-1,January- 2008.
17. **Uzzal K. Acharjee**, Anis Ahmed, Shahida Rafique, “The Potential Positive Impacts in Long Haul Communication System in Bangladesh: Satellites & SEA-MEA-WE4”,(*Published in the Journal of Electrical, Electronics & Communication Technology, Stamford University*),V-1,I-2,ISSN No.:1995-5383,October-2008.
18. Faisal Shah,Masud Reza, **Uzzal K. Acharjee**, “A Survey of MAC Protocols for Ad Hoc Networks and IEEE 802.11”,(*Published in the Journal of Electrical, Electronics & Communication Technology, Stamford University*),V-1,I-2,ISSN No.:1995-5383,October-2008.
19. **Uzzal K. Acharjee**, Anis Ahmed, Shahida Rafique, “Performance Analysis of Navigation by the Integration of GPS-24 with LEO & GEO”, (*Published in the 1-4244-1550-0/07/IEEE Xplore*)2007.
21. Uzzal K. Acharjee, Anis Ahmed, Shahida Rafique, “Calculation of GDOP Approximation by the Integration of GPS, LEO & GEO”,(*Published in Journal of the Bangladesh Electronics Society*), V-7, N1-2, ISSN-1816-1510, December 2007 .
22. Uzzal K. Acharjee, Anis Ahmed, Shahida Rafique, “Performance Analysis of AODV & Secure AODV Ad Hoc Routing Protocols Using Network Simulator. (*Published in the Bangladesh Journal of Physics*),V-3, June 2007
23. Md Abdur Razzaque, Masud Reza, **Uzzal K Acharjee**, “Robustness and Optimality of Joint congestion Control and Multi-path Routing in Sensor Networks”, (*Published in Journal of Bangladesh Physical Society*),V-4, 2007

International and National Conference Papers

1. Farjana Bintay Kamal, Sangita Mitra, Tahmina Khanam, **Uzzal K. Acharjee**, Dipankar Das, Kaushik Deb, Human Detection Based on HOG-LBP for Monitoring Sterile Zone 2019 International Conference on Electrical, Computer and Communication Engineering (ECCE), 7-9 February, 2019
2. T. Ahammad, **U. Kumar Acharjee** and M. M. Hasan, "Energy-Effective Service-Oriented Cloud Resource Allocation Model Based on Workload Prediction," Published in the *21st International Conference of Computer and Information Technology (ICCIT)*, Dhaka, Bangladesh, 2018, pp. 1-6. doi: 10.1109/ICCITECHN.2018.8631953.
3. Md Ashraf Uddin, Mahmudul Hasan, Sajal Halder, Sajeeb Ahamed and **Uzzal Kumar Acharjee**, “*CRICRATE: A Cricket Match Conduction and Player Evaluation Framework*”, Published in International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS2018), Kolkata, India, Publisher: Springer.

4. Md. Amirul Islam, Sajal Halder and **Uzzal Kumar Acharjee** and Md Ashraf Uddin, "Periodic Activity Monitoring Using Radio Frequency Tag Arrays", Published in the International Conference on Computer, Communication, Chemical, Material and Electronic Engineering (IC⁴ME²-2018), Bangladesh.

5. Md. Amirul Islam, Sajal Halder, and **Uzzal Kumar Acharjee**. "Periodic Activity Monitoring Using Radio Frequency Tag Arrays", published in the International Conference on Innovation in Engineering and Technology (ICIET) 2018, Dhaka University. **Publisher: IEEE Xplore.**

6. Md. Amirul Islam and **Uzzal Kumar Acharjee**. "Mining Periodic Patterns and Accuracy Calculation for Activity Monitoring Using RF Tag Arrays", published in the International Joint Conference on Computational Intelligence (IJCCI 2019), Daffodil International University(DIU), Jahangirnagar University (JU), Bangladesh and South Asian University (SAU), India. **Publisher: Springer Nature.**

7. Al-amin, Md. Amirul Islam, Sajal Halder, Md. Ashraf Uddin and Uzzal Kumar Acharjee, "An Efficient Sentiment Mining Approach on Social Media Networks", Published in the 1st International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS-2018), Kolkata, India. **Publisher: Springer AISC.**

8. Partho Ghose, Md Naimur Rahman ,Md Masbaul Alam Polash ,**Uzzal Kumar Acharjee**, "Design of Reversible Shift Registers Minimizing Number of Gates, Constant Inputs and Garbage Outputs", Published in the International Conference on Advances in Computing, Communications and Informatics (ICACCI),2018, Bangalore, India, **Publisher: IEEE Xplore.**

9. Md. Hayder Ali, **Uzzal K. Acharjee** ,Md. Rezwanul Haque, Md. Sohrab Ali and Md. Shohidul Islam Khandaker, "Modified XOR Gate Implementation with Less Weight by Neural Network." (*Published in the 10th Global Engineering, Technology and Science Conference*) 2015, 2-3 January, 2015, BIAM Foundation, Dhaka, Bangladesh, ISBN: 978-1-922069-69-6.

10. Md. Hayder Ali, **Uzzal K. Acharjee**, "Analysis of Threshold and Cost between GPON and EP2P", (*Published in the National Conference on Photonics and Nano Technology*), RUET, Bangladesh, 2014.

11. Md. Masbaul Polash, Md Abu Layek, **Uzzal K. Acharjee**, "Design of an Optimized Reversible Control Unit of a Processor", (*Published in the IEEE Symposium on Industrial Electronics and Applications - Electronic Design & Applications*), 25 - 28 September, 2011 ,Langkawi, Malaysia.

12. Md. Arafat Hossain Khan, Md Abu Layek, **Uzzal K. Acharjee**, "Multiple Polynomial Regression for Modeling a MOSFET in Saturation to Validate the Early Voltage", (*Published in the IEEE Symposium on Industrial Electronics and Applications - Electronic Design & Applications*), 25 - 28 September, 2011 ,Langkawi, Malaysia.

13. Md. Arafat Hossain Khan, Md Abu Layek, **Uzzal K. Acharjee**, , “ Low Cost Advanced Metering Infrastructure Through Wireless Sensor Network”, EEIC 2011, with the publisher of Lecture Notes in Electrical Engineering, Springer, ISSN: 1876-1100), China.

14. **Uzzal K. Acharjee**, Anis Ahmed, Shahida Rafique, “Performance Analysis of Navigation by the Integration of GPS-24 with LEO & GEO”, (*Published in the 10th International Conference on Computer and Information Technology*), 2007

15. **Uzzal K. Acharjee**, Anis Ahmed, Shahida Rafique, “Performance Evaluation of IPsec & TCP protocols for Secure Broadband Multimedia Satellite System”, (*Published & Presented in the International Physics Conference*), Organized by Bangladesh Physical Society, BUET, May 15-17, 2009 .

16. **Uzzal K. Acharjee**, Anis Ahmed, Shahida Rafique, “Experimental Analysis of Proactive and Reactive Ad Hoc Routing Protocols Using Network Simulator”, (*Published & Presented in the 9th International Conference on Computer & Information Technology (ICCIT)*), organized by Independent University, Bangladesh, December, 2006.

17. **Uzzal K. Acharjee**, Anis Ahmed, Shahida Rafique, “Broadband Multimedia SATCOM System: Architecture and Algorithm (*Published & Presented in the Regional Physics Conference, Theme: Physics & Development Synergy*)”, Organized by Bangladesh Physical Society, February 2006.

18. **Uzzal K. Acharjee**, Anis Ahmed, Shahida Rafique, “Satellites :The Potential Positive Impacts in Long Haul Communication System in Bangladesh”, (*Published & Presented in the Regional Physics Conference, Theme: Physics & Development Synergy*), Organized by Bangladesh Physical Society, February 2006.

19. **Uzzal K. Acharjee**, Farruk Ahmed; “A Key Placement Strategy of Bangla Characters Based on Frequency Distribution And Fingering Priority (*Published & Presented in National Conference on Computer Processing of Bangla (NCCPB)*), Independent University, Bangladesh, February 2005.

20. Hossain Khan,; **Uzzal K Acharjee** “Detection of Bengali Text in Digital Images using Connected Component Analysis (*Published in National Conference on Computer Processing of Bangla (NCCPB)*), Independent University, Bangladesh, February 2005 .

21. **Uzzal K. Acharjee**, Bipul K. Sen, “ Satellite Applications in Bangladesh: Status, Constraints and Recommendations”, (Published in the proceeding of the workshop on Prospects and problems of Mobile and Land Phones in Bangladesh) ,Independent University, Bangladesh, 2005

Experience in Implementing Project/Research

Title of the project/ research activities	Donor/ sponsor	Position in the project	Year	
			FROM	TO
Establishment of Basic Campus Network in Jagannath University,	HEQEP, UGC, WB	Sub-project Manager	2016	to July till date

Establishment of Deep Learning Lab for Higher Research	ICT Division,GB	Project Director	January 2019 to December 2020
Design an Efficient Architecture for Distracted Driver Activity Recognition using Deep Convolutional Neural Network	Jagannath University	Sub-project Manager	January 2019 to June 2019
Institutional Quality Assurance Cell(IQAC),Jagannath University	HEQEP,UGC,WB	Head,Self-Assessment Committee, Dept. of CSE, Jnu	January 2018 to December 2018
Design an Efficient Technique for Mining Periodic Pattern of Time Series Data Base	Jagannath University	Sub-project Manager	July 2018 to December 2018
Information Technology Research and Resource Center(ITRRC)	HEQEP,UGC,WB	Alternate Sub-project Manager	January 2011 to December 2013
Reduction of Energy Consumption by Remote Access and Control	Jagannath University	Sub-project Manager	July 2013 to December 2013
Online Admission and Result Processing System of Jagannath University	Jagannath University	Director	July 2016 to till date

Supervisor:

Thesis for M.Phil students:

- 1.Cyber-Attack Prediction and Mitigation in Real - Time Using Big Data Analytics
- 2.Bangla Cyber Bulling Detection and Classification using Deep Learning Methods
3. Extraction of ROI in MRI Images through Segmentation and Different Imaging Techniques

Thesis/Project for M.Sc and B.Sc. students

1. Exploring Deeper: Human Activity Recognition using Deep Convolutional Neural Network
2. DeepConv: Deeper Fully Convolutional Neural Network for Semantic Image Segmentation
3. Enhancing the Performance of Offloading Computation and Energy Efficiency for Mobile Cloud Computing
4. Microcontroller Based Home Appliances Control System Using Mobile Apps.
5. Design and Develop the University Automation System
- 6.Route Recovery Mechanism for Mobile Ad Hoc Network: A Backup Node Based Approach
- 7.IPV6 Deployment Status in Bangladesh and Way towards Migration
- 8.Enhancing the Performance of TCP Over Broadband Multimedia Satellite Network
- 9.Performance Analysis of Navigation by the Integration of GPS-24 with LEO & GEO

10. On-line Honors and BBA Admission System of Jagannath University
11. CGPA Based Result Processing System of Jagannath University
12. Experimental Analysis of Proactive and Reactive Ad Hoc Routing Protocols Using Network Simulator
13. Design and Develop the Website of Jagannath University

Computer Skills:

Programming Language: C/C++, Oracle 8i & Developer 6, Assembly Language, MATLAB 7, Prolog, Java, Python

OS and Networking: Windows and Ubuntu

Web Development: HTML, DHTML, VBScript, Java, PHP

Personal Information:

Nationality : Bangladeshi by Birth
Marital status : Married
Father's Name : Anil Kumar Acharjee
Mother's Name : Rama Rani Acharjee
Date of Birth : 01 January, 1976
Place of Birth : Gopalganj
Nationality : Bangladeshi by Birth
Blood group : B⁺
Religion : Hindu
Interest : Reading, Traveling, Playing

Language Proficiency:

Bengali: Reading, Writing and Speaking.

English: Reading, Writing and Speaking.

Professional Memberships:

Member, IEEE

Fellow, Bangladesh Computer Society

Member, Bangladesh Solar Energy Society.

Member, Bangladesh Electronics Society

Founder Secretary, Dhaka University Computer Association (DUCA).

Referees:

Prof. Dr. Mijanur Rahman

Vice-Chancellor, Jagannath University

Prof. Dr. Hafiz Md. Hasan Babu

Department of Computer Science & Engineering, University of Dhaka

Signature:

(Prof. Dr. Uzzal K. Acharjee)