Resume of Shaila Rahman

Contact Info

Green Garden

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Objectives:

To inspire and empower students through engaging, inclusive, and effective teaching, fostering a lifelong love for learning while promoting critical thinking, creativity, and personal growth in a supportive and respectful classroom environment.

Working Experience.

To leverage my skills to contribute to the growth and success of the organization, while continuing to develop professionally and take on new challenges.

Job Experience at UAP:

August 2003 – Present	**Assistant Professor, Department of Computer Science and Engineering**
July 2002-July 2003	**Senior Lecturer, Department of Computer Science and Engineering**
March 1999-June 2002	**Lecturer, Department of Computer Science and Engineering**

Courses Conducted in Undergraduate Program

➢ **Programming Courses:** C/C++ and Java High Level Programming, Assembly Language and Machine Language for microprocessors (RISC and CISC), Software Projects
➢ **Networking**: Computer Networking, Network Designing in Cisco Packet Tracer
➢ **Operating System:** Shell Scripting in Linux, Ubuntu
➢ **Microprocessors:** Series of Intel Processors and Generations
➢ **Digital Logic and System Design:** Digital Logic the building block of Digital System and digital systems designing
➢ **Computer Architecture:** The different layers of computer hardware and software design and operation

Other courses: Data Communication, Computer Interfacing, Data Structure, Information System Design

Courses Conducted in Graduate Program

➢ Advanced Microprocessors
➢ Advanced Computer Networking (Wireless and Cellular Communication)

Thesis Supervision

So far supervised 50+ thesis groups on different demanding fields of computer science.

Educational Qualification

S.S.C. Examination	Passed this examination from Agrani Balika Biddaloya, Dhaka under Dhaka Board securing First Division with **star marks (784)** in 1989.
H.S.C. Examination	Passed this examination from Begum Badrunnesa College, under Dhaka Board securing First Division with **star marks (779)** in 1991.
B.Sc. (Honours)	Passed this examination from the Department of **Applied Physics & Electronics** under **Dhaka University** securing **First class Fourth Position** in 1994 (examination held in 1996).

M.Sc.	Passed this examination from the **Department of Computer Science** under **Dhaka University** securing **First class Fourth Position** in 1995 (examination held in 1998).

Publications

1. OK Esha, N Begum, S Rahman, "EpiNet: A Hybrid Machine Learning Model for Epileptic Seizure Prediction using EEG Signals from a 500 Patient Dataset" , International Journal of Advanced Computer Science & Applications, 2024

2. Sourav Paul, Md Orun Sunny, Shaila Rahman, Abdullah Al Omar, "Image Analysis using Deep Learning for a Smart Traffic Control System" , Conference Paper, Conference: 2nd International Conference on Computing Advancements - ICCA 2022At: Dhaka, Bangladesh, July 2022

3. S Hossain, Upama Kabir, Shaila Rahman, Aloke Kumer Saha "JXTA & Web Services Using Secret Key Based Encryption", , International Journal of Computing & Information Technology 1 (02), 71-75, 2011.

4. "An Approach of Location Management in GSM using GIS", Kazi Shamsul Arefin, Aloke Kumar Saha, Adnan Anwar, Shaila Rahman, JCIT, ISSN 2078-5828 (PRINT), ISSN 2218-5224 (ONLINE), VOLUME 01, ISSUE Journal, 2010

5. H Hossain, Upama Kabir, Shaila Rahman, "Modified approach of RFCOMM implementation to protect bluetooth technology from Bluebug attacks" International Journal of Computer and Information Technology 12, 2011.

6. M. A. U. Bhuiyan, M. S. Hosain, S. Rahman, "Distance Spectrum Analysis of Third Generation Turbo Codes" Proceedings of the 5th WSEAS Int. Conf. on Applied Electromagnetics, Wireless and Optical Communications, Corfu, Greece, August 23-25, 2005 (pp69-74)

7. Mohammad Zakir Hossain Sarker, Shaila Rahman and Dr. M. Lutfar Rahman, "A New Symmetric Key Cryptographic Algorithm for Unicode Compliant Bangla Characters", East West University Journal, Volume 1, January 2007, pp 105-118

8. Mohammad Zakir Hossain Sarker and Shaila Rahman, "Potential Benefits and Pitfalls of IT Outsourcing from the Viewpoint of Developed Countries: Opportunities and Challenges for Bangladesh", East West University Journal (accepted for publications)

9. Mohammad Zakir Hossain Sarker, Shaila Rahman and Dr. M.A. Mottalib, "Parsing Algorithms for Bengali Parser to Handle Affirmative and Negative Sentences", Proceedings of International Conference on Computer Processing of Bangla (ICCPB)-2006, Dhaka

10. Mohammad Zakir Hossain Sarker, Shaila Rahman and Dr. M. Lutfar Rahman, "A New Symmetric Key Cryptographic Algorithm for Unicode Compliant Bangla Characters", Proceedings of International Conference on Computer Processing of Bangla (ICCPB)-2006, Dhaka.

11. Mohammad Zakir Hossain Sarker, Shaila Rahman, "Exploring Cross Language Independency in .NET Framework", Proceedings of the 9th IEEE International Multi topic Conference, Karachi, Pakistan, 2005.

12. Mohammad Zakir Hossain Sarker, Shaila Rahman, Dr. M.A. Mottalib, "Bottom-Up Parsing Algorithms for Bengali Parser Applying Context-Sensitive Transformation Rules to Maintain the Freeness of Word Order", Proceedings of National Conference on Computer Processing of Bangla (NCCPB)-2005, Dhaka

13. Mohammad Zakir Hossain Sarker, Shaila Rahman, "Potential Benefits and Pitfalls of IT Outsourcing form the Viewpoint of Developed Countries: Opportunities and Challenges for Bangladesh", Proceedings of International Conference on Computer and Information Technology (ICCIT)-2004, Dhaka.

14. Mohammad Zakir Hossain Sarker, Shaila Rahman, Dr. M.A. Mottalib, "Design and Implementation of Bottom-up Context-sensitive Algorithms for Bengali Parser in Natural Language Processing", Proceedings of International Conference on Computer and Information Technology (ICCIT)-2003, Jahangirnagar, Dhaka.

15. Shaila Rahman, Mohammad Zakir Hossain Sarker and Prof. Farruk Ahmed , "mpiJava-based Communication Model in Parallel Matrix Multiplication using 2-D Domain Decomposition under Linux Cluster", Proceedings of International Conference on Computer and Information Technology (ICCIT)-2005, Gajipur, Dhaka.

16. Shaila Rahman, Mohammad Zakir Hossain Sarker and Prof. Farruk Ahmed , "Distributed Object Model to Solve Parallel Stressen's Matrix Multiplication through RMI", Proceedings of International Conference on Computer and Information Technology (ICCIT)-2005, Gajipur, Dhaka.

<u>Current Fields Of Interest</u>

1. Machine Learning, Deep learning
2. Network Security, Cryptography, Block chain

3. Parallel Processing & Distributed System
4. Wireless Communication and Routing

Computer Literacy

Operating systems	MSDOS, WINDOWS-98, WINDOWS NT SERVER 4.0, WINDOWS 2000 & UNIX.
Programming Languages	VISUAL BASIC 6.0, TURBO C/C++, VISUAL C++ 6.0, GWBASIC & ASSEMBLY Languages.
Database Languages	SQL Server 2000, Microsoft Access 2000, MySQL
Web Programming Languages	HTML, DHTML, VB Script, Java Script, ASP, PHP
Package Software	MicroSoft Office 2000

Personal Information

Date of Birth: February 28

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(Shaila Rahman)