Md. Shamsuzzoha Bayzid

CONTACT INFORMATION

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OBJECTIVE

To obtain a Ph. D. in Computer Science and explore exciting research opportunities in the field of bioinformatics and computational biology.

RESEARCH INTERESTS

Bioinformatics, Computational Biology, Graph Theory, Algorithms

EDUCATION

M.Sc. Engg. in Computer Science and Engineering
Bangladesh University of Engineering and Technology
(expected graduation date: July 2010)
CGPA: 4.00/4.00 (upto second semester)

B.Sc. Engg. in Computer Science and Engineering, January 2008
Bangladesh University of Engineering and Technology
CGPA: 3.96/4.00
Position: Ranked 1st in a class of 115 students

Higher Secondary Certificate (HSC), 2002
Dhaka College, Dhaka
Marks: 94.6%
Placed 5th position in the combined merit list, Dhaka Education Board.

Secondary School Certificate (SSC), 2000
I. E. T. Govt. High School, Narayanganj
Marks: 92.5%
Placed 19th position in the combined merit list, Dhaka Education Board.

RESEARCH EXPERIENCE

November 2006 - January 2008
Worked with Prof. Dr. Md. Saidur Rahman on
- "Individual Haplotyping With Minimum Error Correction"
- "Pairwise Compatibility Graphs"

April 2008 - March 2009
Worked with Prof. Dr. Md. Saidur Rahman on
- "Minimum Conflict Individual Haplotyping"
- "Innovative Technology"

April 2009 - Present
Working with Prof. Dr. Md. Saidur Rahman on
- "Phylogentic k-root and Steiner k-root Graphs"
- "The open problem – whether every graph is pairwise compatible or not"

Academic Experience

February 2008 - Present
Lecturer
Department of Computer Science and Engineering
Bangladesh University of Engineering and Technology

Honours & Awards

- International Fulbright Science and Technology Ph.D. Award.
- Dean's List Award for academic excellence in all completed levels, BUET.
- University Merit Scholarship for academic excellence in all terms, BUET.
- Dhaka Education Board Scholarship for excellence in the HSC examination.
- Dhaka Education Board Scholarship for excellence in the SSC examination.
- Khatimunnesa and Md. Hanif Laskar Trust Fund Scholarship, BUET
- Champion in a Speech Competition on "Women's Rights", Narayanganj.

Publications

Journals

- Abdullah Al Mueen, Md. Shamsuzzoha Bayzid, Md. Maksudul Alam and Md. Saidur Rahman, *A Heuristic Algorithm for Individual Haplotyping with Minimum Error Correction*, submitted to Journal of Bioinformatics and Computational Biology (JBCB).

Conference Proceedings

- Abdullah Al Mueen, Md. Shamsuzzoha Bayzid, Md. Maksudul Alam and Md. Saidur Rahman, *A Heuristic Algorithm for Individual Haplotyping with Minimum Error Correction*, Proc. of International Conference on Biomedical Engineering and Informatics (BMEI), IEEE Computer Society Press, pp. 792-796, 2008.
- Md. Shamsuzzoha Bayzid, Anindya Iqbal, Chowdhury Sayeed Hyder and Mohammad Tanvir Irfan, *Application of Artificial Neural Network in Social Computing in the context of Third World Countries*, Proc. of International Conference on Electrical and Computer Engineering (ICECE), pp. 648-653, 2008.

Other Activities

External Reviewer, International Conference on Biomedical Engineering and Informatics (BMEI 2008).
Adviser, Crimson Bangladesh (www.crimsonbangladesh.org)
Member, Champion team of the CSE Day'04 Cricket Tournament organized by the department of Computer Science and Engineering, BUET.

Skills

Programming Languages
C/C++, Java, C#, Prolog, 80x86 Assembly

Web Development
HTML, ASP.NET

Modeling Tools
UML, ER-Diagram

Database
Oracle, PL/SQL

Environments
Microsoft Visual Studio, Borland JBuilder, GCC

Operating Systems
Microsoft Windows, Linux

Others
OpenGL, Matlab, PSPICE, Microwind, Verilog HDL, LaTeX, Linux Shell Programming

Software Projects

Graphics Project *2007*
It is a 3D model of a castle. Models included were a castle, fountain, lake, flag, easy chair etc. A human model was also incorporated which is controllable through keyboard. Features include curved surfaces, lighting, textures etc. OpenGL was used with Visual C++ 6.

Real Estate Management System *2007*
This project was originally intended for analysis, design and development of a Real Estate Management System. It was designed and implemented for a web based real estate management system with rigorous search facilities.

Media Business Management System *2006*
A windows application for media agency that manages scheduling of advertisements, costing and reporting. It was developed using .NET 2.0, C# and SQL Server 2000.

Bank Setup Decision Maker *2005*
A neural network based project to give assistance in making decision of whether a branch of a bank should be set up in a particular area or not.

OS Project *2006*
The file system and memory manager modules similar to UNIX were simulated. The memory manager allocates memory according to the requests sent by different processes through message queue, and maintains a special data structure. The file system supports a minimal set of file commands including cp, ls, chmod, head, tail, ln etc.

Wordpad *2004*
A Java application with most of the features of a modern word processor. Some advanced features of Swing were used in the program.

Hardware Projects

Distant Appliance Control Using Cell Phone *2007*
Computer based appliance control system that can control appliances in distant places. A J2ME application serves the purpose of controlling appliance by cell phone. Status of different appliances can be known through mobile. It was developed using Visual Studio .NET (C#), J2ME.

4-bit Microprocessor *2007*
A simple processor capable of executing a set of 28 instructions was designed and implemented. A single bus architecture was used with a microprogrammed control unit.

References

Dr. Md. Saidur Rahman
Professor
Department of Computer Science and Engineering
Bangladesh University of Engineering and Technology

Dr. M. Kaykobad
Professor
Department of Computer Science and Engineering
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Dr. Masud Hasan
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