

Mohammad Sajjad Hossain

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OBJECTIVE To pursue a challenging career as a computer scientist.

EDUCATION

- ◇ **Stony Brook University**, Stony Brook, NY.
Ph.D. Candidate in Computer Science (Fall 2005 – present)
- ◇ **Stony Brook University**, Stony Brook, NY.
M.Sc. in Computer Science (Expected Fall 2007)
- ◇ **Bangladesh University of Engineering and Technology**, Bangladesh.
B.Sc. in Computer Science and Engineering (February 2004)
- ◇ **Scholarships**
 - University Fellowship, Stony Brook University (Fall 2005 – Spring 2006)
 - Dean's List Scholarship, Bangladesh University of Engineering and Technology (2002 – 2003)

RESEARCH INTERESTS Algorithms, Data Structures, Computational Biology, Networking and Distributed Systems.

AWARDS AND ACHIEVEMENTS

- ◇ 2005-06 **Outstanding Teaching Assistant Award**, Computer Science, Stony Brook University.
- ◇ Participated in ACM International Collegiate Programming Contest (ICPC) 2006 **World Finals** at San Antonio, Texas.
- ◇ **Champion** in ACM ICPC Regionals 2005, Greater New York Region.
- ◇ Judge and problem setter of ACM ICPC Regionals 2004, Asia region, Dhaka site and National Computer Programming Contest of Bangladesh 2004.
- ◇ **Champion** in Inter University Programming Contest 2003 hosted by Daffodil University, Bangladesh.
- ◇ **Champion** in Inter University Programming Contest 2003 hosted by AIUB, Bangladesh.
- ◇ **Runner up** in ACM ICPC Regionals 2003, Asia region, Kolkata site.
- ◇ **Runner up** in National Computer Programming Contest 2003 of Bangladesh.
- ◇ *5th* position in ACM ICPC Regionals 2003, Asia region, Dhaka site.
- ◇ **Champion** in Inter University Programming Contest 2002 hosted by AIUB, Bangladesh.
- ◇ **Champion** in Tri-University Programming Contest 2002 hosted by North South University.
- ◇ **Champion** in ACM ICPC Regional Warm-up Contest 2002 hosted by Southeast University, Bangladesh.
- ◇ **Runner up** in University of Waterloo Programming Contest (Online version – Fall 2002).
- ◇ *2nd* **runner up** in ACM ICPC Regional Programming Contest 2002, Asia region, Dhaka site.
- ◇ Solved more than 1,000 problems from UVA (<http://acm.uva.es>) online judge and ACM ICPC live archive. Was ranked *5th* in the world and topmost in the country (January 2004).

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- ◇ 7th in All Time Online Contests Rank List as a member of the team named BUET Sprinter (<http://acm.uva.es/contest>) (as of 2003).
- SKILLS
 - ◇ C, C++, Java, Assembly (Intel x86), Prolog, Perl
 - ◇ Linux, MS-DOS, MS-Windows
 - ◇ Fluent spoken/written English
- PUBLICATION
 - ◇ de Novo Assembly of Bacterial Genome Possible With Short Reads of Only 50 Coverage. (with Navid Azimi and Steven Skiena) *To be submitted at ISMB 2008*
 - ◇ Discriminative Meta-Analysis of Microarray Data: Combining Fission Yeast Cell Cycle Studies. (with Saumyadipta Pyne) *International Symposium On Computational Biology and Bioinformatics (ISBB06), Bhubaneshwar, India, Dec 15-17, 2006*
 - ◇ The Application of Normalized Gain Criterion in Multi-way Splits on Continuous Attributes for Decision Trees. (with Abu Wasif) *International Conference on Computer and Information Technology (ICCIT), Dhaka, 2003.*
- WORK EXPERIENCE
 - ◇ **Research Assistant**, Algorithms Lab, Stony Brook University (Fall 2006 – present)
 - ◇ **Engineering Intern**, Ads Backend, Google Inc., Mountain View, CA (Summer 2006)
 - ◇ **Teaching Assistant**, Stony Brook University (Fall 2005 – Spring 2006)
Course: Foundations of Computer Science II (<http://cs.sunysb.edu/~cse214>)
 - ◇ **Problemsetter**, Universidad de Valladolid, Spain, Online Contest Hosting Service (<http://acm.uva.es/contest>).
 - ◇ **Lecturer**, Southeast University, Bangladesh (Spring 2004 – Summer 2005)
 - ◇ **Programmer**, Dynamic Solution Innovators, Inc. (<http://www.dsinv.com>) (2003 – 2004), worked in two projects in Linux platform using object oriented A/D, Java, Struts, Tomcat, Hibernate, JSP, Oracle, etc.
- RESEARCH PROJECTS
 - ◇ (**Computational Biology**) Sequence Assembly for High-Throughput Technologies (Fall 2006 – present).
 - ◇ (**Computational Biology**) Detecting Periodicity in Fission Yeast Cell Cycle Gene Expression Using Lomb-Scargle Periodogram (Fall 2005).
 - ◇ (**Computational Finance**) Combining Options to Match a Desired Payoff Schedule (Spring 2007)
 - ◇ (**Machine Learning**) Analyzing the Behavior of Soft Classification of Theories in Probabilistic Theory Refinement (Undergraduate Dissertation) (2003 – 2004).
- OTHER PROJECTS
 - ◇ (Automatic Answering Machine) A Software developed in Visual C++ using TAPI that acts like an inbox, answer calls, record calls, forward them and check them from remote location.
 - ◇ (Memory Manager of a Simple Operating System) A UNIX-like memory manager that was later integrated with a kernel and file manager to produce a simple operating system.
 - ◇ (Design of an E-commerce Site) All necessary system analysis and proposals were made to build an e-commerce based site.
 - ◇ (DLL Layer for OSI Layered Network) A DLL layer was developed in JAVA for OSI Layered Network Architecture.
 - ◇ (8 bit Microprocessor) It was a simple 8-bit Microprocessor that supported pipelining and could perform 20 different instructions.
 - ◇ (Bar Code Scanner) A simple bar code scanner with necessary software support.
- REFERENCE Available on request.