

Mohammad Shabbir Hasan

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Objective To become a successful researcher in Computer Science and build up a carrier as an academician.

Research Interest Bioinformatics, Computational Biology, Database, Software Engineering.

Highlights of Qualification

- Four years of experience in doing quality research in Bioinformatics, Computational Biology, Software Engineering and Web Applications.
- One and half year experience as a teaching assistant in the Computer Science department in the University of Akron.
- Two years of experience as a faculty member of Computer Science in the Asian University of Bangladesh and Institute of Science, Trade and Technology, Dhaka, Bangladesh.
- Obtained a good position in the world ranking of the ACM UVA Online Judge programming contest.
- Participated in the ACM International Collegiate Programming Contest (ICPC) and other inter university programming contests.
- Participated in the BASIS SOFTEXPO, the largest software fair of Bangladesh for academic project show.
- Effective communication skills in English were developed through writing and publishing several articles in world leading journals and conference proceedings.
- Demonstrated strong interpersonal skills through successful collaboration with other functional groups of the institute in service

Education

- **The University of Akron, USA**
M.S. in Computer Science. August 2011-present
- **Khulna University of Engineering and Technology, Bangladesh**
B.Sc. (Engg.) in Computer Science and Engineering, March 2008.

**Selected
Publications**

Journal

[JL04] **Mohammad Shabbir Hasan**, Qi Liu, Han Wang, John Fazekas, Bernard Chen and Dongsheng Che. *GIST: Genomic Island Suite of Tools for predicting genomic islands in genomic sequences*. Bioinformation, Volume 8:4, pp. 203-205, February 2012.

[JL03] Dongsheng Che, **Mohammad Shabbir Hasan**, Han Wang, John Fazekas, Jinling Huang and Qi Liu, *EGID: an ensemble algorithm for improved genomic island detection in genomic sequences*, Bioinformation, Volume 7:6, pp. 311-314, November 2011.

[JL02] **Mohammad Shabbir Hasan**, Quazi Farhan and Abdullah Al Mahmood, *An Exploratory and Feasibility Study of Implementing Online Based Voting System in Bangladesh*, International Journal of Computer Science and Emerging Technologies, Volume 1:3, pp. 125-132, October 2010.

[JL01] K. M. Azharul Hasan and **Mohammad Shabbir Hasan**, *A Parsing Scheme for Finding the Design Pattern and Reducing the Development Cost of Reusable Object Oriented Software*, International Journal on Computer Science and Information Technology, Volume 2:3, pp. 40-54, June 2010.

Conference Proceedings

[CP05] Dongsheng Che, **Mohammad Shabbir Hasan**, Han Wang, Bernard Chen and Yong Wei, *M Are Better Than One: An Ensemble Method For Genomic Island Prediction*, 6th International Conference on Bioinformatics and Biomedical Engineering 2012, Shanghai, China, May 2012.

[CP04] **Mohammad Shabbir Hasan**, Abdullah Al Mahmood and Quazi Farhan, *A Roadmap towards the Implementation of an Efficient Online Voting System in Bangladesh*, International Conference on Software Engineering and Computational Intelligence 2010, Wuhan, China, December 2010.

[CP03] **Mohammad Shabbir Hasan** and K.M. Azharul Hasan, *Determining the Most Effective Class for Extending Reusability of Object Oriented System*, International Conference on Educational and Information Technology 2010, Chongqing, China, pp. V2: 498-502, September 2010.

[CP02] K.M. Azharul Hasan and **Mohammad Shabbir Hasan**, *Principal Component Analysis of Coupling Measures for Developing High Quality Object Oriented Software*, 3rd International Conference on Computer and Communication Engineering 2010, Kuala Lumpur, Malaysia, pp. 217-222, July 2010.

[CP01] **Mohammad Shabbir Hasan** and K.M. Azharul Hasan, *Finding the Design Pattern from the Source Code for Developing Reusable Object Oriented Software*, 2nd International Conference on the Applications of Digital Information and Web

Technologies 2009, London, UK, pp. 157-162, August 2009.

Employment

- **The University of Akron** **08/2011-present**
*Graduate Teaching Assistant,
Department of Computer Science*
- **East Stroudsburg University of Pennsylvania** **01/2011-08/2011**
*Research Assistant,
Department of Computer Science*
- **Institute of Science, Trade and Technology** **01/2010-12/2010**
*Lecturer,
Department of Computer Science and
Engineering*
- **Asian University of Bangladesh** **05/2008-08/2009**
*Lecturer,
Department of Computer Science and
Engineering*

Teaching Experience

- **The University of Akron**
Responsibilities:
 - Assisting professors in 3460: 635 (Advanced Algorithms), 3460:435 (Algorithms), 3460:316 (Data Structures) and 3460:210 (Computer Science II).
 - Grading assignments and projects.
- **Institute of Science, Trade and Technology**
Responsibilities:
 - Taught undergraduate level course on Data Structure and Algorithms, Microprocessor.
 - Was Responsible for lectures, exams, homework, assignments, and grades.
- **Asian University of Bangladesh**
Responsibilities:
 - Taught undergraduate level course on Design and Analysis of

Algorithms, Web Programming, Programming Language, Discrete Mathematics, Artificial Intelligence.

- Was responsible for lectures, exams, homework, assignments, and grades.

Research Projects

- Classification of Genomic Islands based on gene functions
- Phylogenetic Analysis of West Nile virus found in North America and Europe
- Microarray Data Analysis for cancer cell identification using data mining approach
- EGID: An Ensemble Algorithm for Genomic Island Detection
- GIST: Genomic Island Suite of Tools
- Finding Design Pattern from source code for an Object Oriented System.

Computer Skills

- **Programming Languages:** Java, C, PHP, MS SQL, MySQL, C++, and HTML.
- **Operating System:** Windows, Linux (Fedora and Ubuntu)
- **Content Management System:** Joomla
- **Tools:** Adobe Dreamweaver, Subversion (SVN).

References

Available upon request