

Tamal Biswas

PhD. Candidate

contact

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programming

C, C++,
Java, Perl,
Python,
Matlab,
PHP, CSS,
HTML

education

- 2011–Now **Doctor** of Philosophy University at Buffalo, Buffalo
Computer Science and Engineering
Expected: February 2016,
GPA: 3.83/4.00
Thesis: *Measuring Intrinsic Quality of Human Decisions*
Advisor: Dr. Kenneth W. Regan
- 2009–2010 **Masters** of Science University at Buffalo, Buffalo
Electrical Engineering
GPA: 3.89/4.00
- 2002–2006 **Bachelors** of Technology National Institute of Technology , Silchar, Assam, India
Electronics and Telecommunication Engineering
GPA: 8.61/10.00

experience

- 2006–2009 **Wipro Technologies** Bangalore, India
Senior Project Engineer
Mobile Devices Division
Detailed achievements:
- Development, enhancement, and bug-fixing of various features and components of SIP (Session Initiation Protocol) for example Call Transfer, Multiple User Support
 - Developed various module for the implementation of the SIP client for Windows, Linux and Windows Mobile Platform including ‘calling self’ and HTTP support.
 - Developed ‘call transfer’ feature which enables transferring the call of one user to another without disconnecting the current call.
 - Introduced multi-user support which enables running the application in server mode. Multiple users can use the same instance of the application simultaneously.
 - Development of STUN and TURN client (NAT traversal utilities) for SIP
 - Implemented STUN client, which communicates with any global STUN server to discover the type of NAT and the system’s global IP address. For all practical purposes, STUN is sufficient except for the case of symmetric NAT, where relay extension of STUN i.e., TURN (Traversal Using Relays around NAT) is used
 - Integrated Developed STUN and TURN client with SIP implementation.
 - Porting Iperf (Network performance testing tool) from Windows to Windows Mobile
 - Ported Iperf to windows mobile which can be used to tweak system performance by changing TCP window size, buffer length etc.
 - Performance of Various networks on various devices was tested and evaluated using the developed piece of software.

awards

2002-2006 **Indian Government Scholarship** Cultural Exchange Program, ICCR, India
Awarded full tuition waiver and monthly stipend for the entire duration of undergraduate studies.

involvements

2002-2009 **Volunteer** Ramakrishna Mission
Worked in various centers of India as volunteer and helped in providing relief and medical aid to rural people

2004 **Secretary** National Institute of Technology, Silchar, Assam
Served as the secretary of the photography club

2010-2011 **IT consultant** University at Buffalo
Worked as IT consultant in Public Health Computation Lab

interests

professional: teaching **personal:** reading books, chess, cooking, playing tennis and racquetball, running, solving puzzles, learning life-hacks.

publications

- Kenneth Regan and Tamal Biswas. Psychometric modeling of decision making via game play. In *proceedings, IEEE Conference on Computational Intelligence in Games*, 2013
- K. Regan, T. Biswas, and J. Zhou. Human and computer preferences at chess. In *Proceedings of the 8th Multidisciplinary Workshop on Advances in Preference Handling (MPref 2014)*, 2014
- Tamal Biswas and Kenneth W. Regan. Efficient memoization for approximate function evaluation over sequence arguments. In *Algorithmic Aspects in Information and Management - 10th International Conference, AAIM 2014, Vancouver, BC, Canada, July 8-11, 2014. Proceedings*, pages 185–196, 2014
- Tamal Biswas. Designing intelligent agents to judge intrinsic quality of human decisions. In *proceedings, International Conference on Agents and Artificial Intelligence (ICAART)*, 2015
- Tamal Biswas and Kenneth Regan. Quantifying depth and complexity of thinking and knowledge. In *proceedings, International Conference on Agents and Artificial Intelligence (ICAART)*, 2015

references

1. Kenneth W. Regan, Associate Professor, Department of CSE, University at Buffalo.
2. Shambhu Upadhaya, Professor, Department of CSE, University at Buffalo.
3. Dimitrios Koutsonikolas, Assistant Professor, Department of CSE, University at Buffalo.
4. Kris Schindler, Teaching Assistant Professor, Department of CSE, University at Buffalo.