

# Ragib Hasan

Assistant Professor, Department of Computer and Information Sciences, University of Alabama at Birmingham

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CONTACT INFORMATION	115 Campbell Hall Department of Computer and Information Sciences University of Alabama at Birmingham 1300 University Blvd, Birmingham, AL 35294	<i>Office Phone:</i> (205) 934-8643 <i>E-mail:</i> ragib@cis.uab.edu <i>Web:</i> <a href="http://secret.cis.uab.edu">http://secret.cis.uab.edu</a> <i>Web:</i> <a href="http://www.ragibhasan.com">http://www.ragibhasan.com</a>
RESEARCH INTERESTS	Data security and privacy, trustworthy cloud computing, cloud forensics, Internet of Things, secure distributed systems, Mobile malware, secure databases and file systems, secure provenance, location privacy and security, regulatory compliant systems, and trust management, MOOC development for rural students.	
EDUCATION	<b>University of Illinois at Urbana Champaign</b> , Urbana, Illinois PhD in Computer Science, October 2009 <ul style="list-style-type: none"><li>• Dissertation title: Trustworthy History and Provenance for Files and Databases</li><li>• Advisor: Professor Marianne Winslett, UIUC</li></ul> MS in Computer Science, December 2005 <ul style="list-style-type: none"><li>• Thesis title: Synergy: A Trust-aware Policy-driven Information Dissemination Framework</li><li>• Advisor: Professor Marianne Winslett, UIUC</li></ul> <b>Bangladesh University of Engineering and Technology</b> , Dhaka, Bangladesh B.Sc Computer Science and Engineering, February 2003 <ul style="list-style-type: none"><li>• Graduated <b>Summa Cum Laude</b> in a class of 45</li><li>• Received University Gold Medal for highest GPA among students of all departments</li></ul>	
EMPLOYMENT	<b>University of Alabama at Birmingham</b> <i>Assistant Professor</i> <i>Department of Computer and Information Sciences</i>	8/2011–
	<b>Johns Hopkins University</b> <i>NSF/CRA Computing Innovation Fellow and Assistant Research Scientist</i> <i>Department of Computer Science</i>	10/2009–7/2011
	<b>University of Illinois at Urbana-Champaign</b> <i>Graduate Research Assistant, Department of Computer Science</i>	08/2003–09/2009
	<b>Google Inc.</b> <i>Software Engineering Intern, Internal Security Group</i>	05/2007–08/2007
	<b>Bangladesh University of Engineering and Technology</b> <i>Lecturer, Department of Computer Science</i>	03/2003–08/2003
OTHER AFFILIATIONS	<b>UAB SEaP Lab</b> – Faculty Director of UAB Software Engineering and Prototyping Lab. Managing development of software for various UAB departments and projects through a team of student programmers. This takes up to 4 hours or 10% of my time per week as I coordinate with staff and developers, lead project meetings, and also meet with existing and prospective clients.	01/2015–current

**Shikhhok.com** – Founder, developer, and organizer of an award-winning online education platform for rural South Asian students. **06/2012–current**

**BanglaBraille Project** – Founder and chief co-ordinator of an award-winning crowd-sourced project for creating educational content for visually impaired school-children in Bangladesh. **06/2013–current**

**University of Alabama** – member of Graduate Faculty. **01/2013–current**

**Center for Information Assurance and Joint Forensics Research, UAB**  
Faculty member affiliate. **02/2012–current**

GRANTS

**Total External Grant Money received:** **\$2.7 million**  
**(As PI):** **\$1.11 million**

**Federal Funding Agencies**

(As the Sole PI)

**PI**, National Science Foundation, CNS-1351038 **7/2014-6/2019**  
*NSF CAREER Award, CAREER: Secure and Trustworthy Provenance for Accountable Clouds* **\$487,000**

**PI**, Department of Homeland Security, contract FA8750-12-2-0254 **8/2012-2/2015**  
*Secure Location Provenance for Mobile Devices* **\$587,289.00**

**PI**, NSF Award 0937060/CRA Sub Award CIF-389/389A **10/2009–09/2011**  
*Trustworthy History and Provenance for Files, Databases, and Clouds* **\$267,500**

(As co-PI)

**Co-PI**, Patient Centered Outcomes Research Institute (PCORI) **12/2013-6/2015**  
*Arthritis Patient Partnership with Comparative Effectiveness Researchers (AR-PoWER)* **\$1,000,000**  
(PI: Dr. Jeffrey Curtis, UAB)

**Co-PI**, National Science Foundation Award 1229282 **10/2012–9/2014**  
*MRI: Development of a GPU-Enabled, Petascale Active Storage Architecture for Data-Intensive Applications in HPC and Cloud Environments* **\$300,000**  
(PI: Anthony Skjellum)

**Co-PI**, Office of Naval Research Grant N000141210217 **7/2012-3/2015**  
PI from 9/2014  
*Secure Document Signatures: Profiling Documents for Authorship Identification & Provenance* **\$393,838.00**  
(PI: Dr. Thamar Solorio (Till 8/2014))

**Industry and Foundation**

**PI** Internet Community Grant **11/2013-10/2014**  
*Shikhhok.com e-learning project.* **\$7,500**

**PI** ISIF.Asia Award **8/2013-7/2014**  
*Shikhhok.com e-learning project.* **AU\$3,000**

PI Google RISE Award 1/2013–1/2014  
*Shikhhok.com e-learning project.* \$5,000

PI, Google Faculty Research Award 2011 12/2011–12/2012  
*Secure Location Provenance* \$35,557

#### Other Research and Teaching Grants

PI, Amazon AWS Research Award 2/2014–01/2016  
*Securing Cloud Computing* \$2,000

PI, Amazon AWS Teaching Award 12/2013–12/2014  
*Security and Privacy in Cloud Computing, UAB, Fall 2013/4* \$11,000

PI, Amazon AWS Teaching Award 7/2013–07/2014  
*Security and Privacy in Cloud Computing, UAB, Fall 2013* \$3,100

PI, Amazon AWS Teaching Award 7/2012–07/2013  
*Security and Privacy in Cloud Computing, UAB, Fall 2012* \$1,600

PI, Amazon AWS Research Award 7/2011–07/2013  
*Towards Trustworthy and Accountable Cloud Computing* \$7,500

PI, Amazon AWS Teaching Award 7/2011–07/2012  
*Security and Privacy in Cloud Computing, UAB, Fall 2011* \$3,100

**Total Internal Grant Money received at UAB:** **\$41,000**

PI, College of Arts and Sciences Interdisciplinary Grant 10/2012-9/2013  
*Towards an Interdisciplinary Approach for Secure and Effective Collaboration in Hospital Environments* **\$41,000.00**

#### Grant Proposals Under Submission

1. Ragib Hasan (PI), CSR:Small:Collaborative Research: Research In Sustainable Storage Lifecycle and Data Waste-Avoidance. Submitted to NSF (January 2015).
2. Ragib Hasan (Co-PI), Anthony Skjellum (Co-PI): IoTA: IoT-based Ambient Intelligence – Individual Project Grants, Submitted to the Google IoT Award Program (January 2015)

#### RESEARCH EXPERIENCE

#### University of Alabama at Birmingham

*Assistant Professor, CIS, and Director, SECRETLab*

**August 2011–current**

At UAB, I established the SECuRE and Trustworthy computing Lab (SECRETLab) (<http://secret.cis.uab.edu>). SECRETLab is dedicated towards cutting-edge research on computer security and digital forensics. SECRETLab currently explores research projects focused on efficient and practical security. Current projects at the SECRETLab include cloud security and privacy, innovative mobile malware defenses, secure data and location provenance, and digital data waste. Under my supervision, SECRETLab currently employs one postdoctoral fellow and four PhD students working on computer security related research. Research projects at the SECRETLab are funded by grants from the Department of Homeland Security, the Office of Naval Research, an NSF CAREER Award from the National Science Foundation, Google, and Amazon, including a 2011 Google Faculty Research Award and a 2013 Google RISE Award.

I am also the founder of Shikhhok.com – an award-winning MOOC dedicated to providing quality

education to rural and disadvantaged students in Bangladesh and India. With a budget of only \$15, I have established a free online educational platform serving more than 20,000 students through an innovative hybrid online-offline content distribution mechanism. The Shikhhok.com project is the winner of a 2013 Google RISE Award and a 2013 Deutsche-Welle Best of Blogs and Online Activism Award (Best Innovation, User Award) in recognition of our mission of expanding STEM education in rural areas of India and Bangladesh.

### **Johns Hopkins University**

*NSF/CRA Computing Innovation Fellow*

**October 2009–current**

As the PI of an NSF/CRA funded research grant (\$267,500) under the Computing Innovation Fellow (CIFellows) project, I have worked on the theory and practice of securing data provenance in different application domains, such as files, location proofs, databases, and cloud computing systems. Protecting the origin and lineage of data is very important as it is created, processed, and transmitted through semi-trusted or untrusted domains. My research focused on providing the necessary integrity assurances for data history and provenance, in multiple application domains, and in different granularities.

Based on my proposal titled “Trustworthy History and Provenance for Files, Databases, and Clouds”, I was awarded the highly competitive 2009-2011 NSF Computing Innovation Fellowship (acceptance rate < 5% for International students, < 12% overall). This project was conducted in collaboration with Prof. Randal Burns at the Johns Hopkins University. As part of this project, I developed efficient and practical schemes and systems for secure location provenance, secure file and database history, and secure cloud data provenance.

### **University of Illinois at Urbana-Champaign**

*Graduate Research Assistant*

**August 2005-September 2009**

Worked on Secure Provenance, Term-immutable Databases, Storage Security, and Trust Management under Prof. Marianne Winslett at the DAIS Lab (Trust and Compliance Storage subgroup). Developed theoretical models and implemented prototype application layer libraries for Secure Provenance in Storage Systems and databases. Explored design of regulatory compliant term-immutable database architectures. This research has been published in ACM Transactions on Storage, EDBT 2010, USENIX FAST 2009, CIDR 2009, StorageSS 2007, VLDB SDM 2007, USENIX ;login: Magazine, and in a book-chapter [BK02].

### **NCSA / TCIP Project**

*Summer Research Assistant*

**Summer 2008**

Designed an NS-2 based simulator for NASPINet for the Power Grid, with capability to analyze the effect of different security schemes. This research has been published in IEEE PSCE 2009.

### **Google Inc., Mountain View, CA**

*Software Engineering Intern*

**Summer 2007**

Designed and implemented *Delegated Authorization Using Permits* for Google’s single sign-on system. The permit-based mechanism allows disjoint applications to be joined together using *Mash-ups* while providing appropriate access control and authorization capabilities. This research has been published in ACSAC 2008.

### **NCSA Storage Security and Survivability group**

**May 2004-August 2006**

Developed a comprehensive *Threat Model* for secure storage. Performed detailed analysis of *Storage Breach Incidents* and created a database resource for further research. Worked on immutable and tamper-proof models of storage security.

**NCSA Radio Astronomy Imaging group**

*Graduate Research Assistant*

**January 2004-May 2005**

Created an *Automated Code Translation Tool* that generates BABEL interfaces for legacy C/C++ and Fortran code, for use under the Common Component Architecture (CCA) model, allowing translation of 2 million lines of MYRIAD/AIPS++ code. This work has been published in SP&E Journal.

**PABLO Research Group, Dept. of Computer Science, UIUC**

*Graduate Research Assistant*

**August 2003-December 2003**

Worked with **SvPablo Instrumentation Suite** for Parallel Computing, under the supervision of Prof. Dan Reed and analyzed statistical sampling techniques for performance evaluation.

TEACHING  
EXPERIENCE

**University of Alabama at Birmingham, Birmingham, Alabama**

*CS 101 Fluency with Information Technology*

**Fall 2012**

*CS 250 Discrete Structures* **Spring 2012, Spring 2013, Fall 2013, Spring 2014, Spring 2015**

*CS 330 Computer System Organization and Assembly Language*

**Fall 2014**

*CS 691 Security and Privacy in Cloud Computing* **Fall 2011, Fall 2012, Fall 2013, Fall 2014**

**Johns Hopkins University, Baltimore, Maryland**

*CS 600.412 Security and Privacy in Cloud Computing*

**Spring 2011 and Spring 2010**

Designed a new graduate level course on cloud computing security – one of the first ever courses on this topic at Graduate-level, at any US University (<http://www.cs.jhu.edu/~ragib/sp10/cs412>). I was solely responsible for teaching the course to graduate students at the Department of Computer Science at Hopkins Spring 2010 and Spring 2011.

**University of Illinois at Urbana-Champaign, Urbana, Illinois.**

*CS 591MW2 Advanced Data Security, Guest Lecturer*

**Fall 2009, Spring 2008**

Taught about provenance in computing, and secure provenance techniques.

*CS 563, Advanced Computer Security, Guest Lecturer*

**Spring 2006**

Talked about trusted hardware and different techniques for compromising such devices.

**Bangladesh University of Engineering and Technology, Dhaka Bangladesh Lecturer March 2003-August 2003**

Taught 42 hours of undergraduate level course (CSE307 Microprocessors) at the Department of Computer Science and Engineering. Was responsible for lectures, exams, homework assignments, and grades. Total class size was 60.

**Institute of Information and Communication Technology, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh**

*Instructor*

**May-June, 2002**

Taught Linux System Administration and Computer Programming courses on PHP and Java. Shared responsibility for lectures, exams, homework assignments, and grades.

**Misc**

*Programming language tutor*

**1998-2002**

Tutored approximately 120 undergraduate students at Bangladesh University of Engineering and Technology. Taught them different programming languages such as C, C++, and Java.

**Peer-reviewed Journal Articles**

[**JL10**] **Ragib Hasan**, Rasib Khan, Shams Zawoad, Md Haque, “WORAL: A Witness Oriented Secure Location Provenance Framework for Mobile Devices”, to appear in IEEE Transactions on Emerging Topics in Computing (TETC) SI on Cyber Security, 2015. (Accepted for publication, early access available at <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7035068>)

[**JL09**] Shahid Noor, Md. Haque, and **Ragib Hasan**, “CellCloud: Towards a Novel Cost Effective Formation of Mobile Cloud Based on Bidding Incentives”, Accepted for publication, International Journal of Cloud Computing (IJCC), 2015.

[**JL08**] Md Haque, Ferdaus Kawsar, Md Adibuzzaman, Sheikh Iqbal Ahamed, Md Uddin, Richard Love, **Ragib Hasan**, Rumana Dowla, Tahmina Ferdousy and Reza Salim, “e-ESAS: Evolution of a Participatory Design based Solution for Breast Cancer (BC) Patients in Rural Bangladesh”, Springer Personal and Ubiquitous Computing, Volume 19, Issue 2, pp 395-413, Springer, February 2015. (Impact Factor 1.616)

[**JL07**] Shams Zawoad, **Ragib Hasan**, Gary Warner, Md Munirul Haque, “Towards a Cloud-based Approach for SPAM URL Deduplication for Big Datasets”, International Journal of Cloud Computing (IJCC), Volume 2, Issue 3, pp. 1-14, 2014

[**JL06**] Rasib Khan, Mainul Mizan, **Ragib Hasan**, and Alan Sprague, “Hot Zone Identification: Analyzing Effects of Data Sampling on Spam Clustering”, Journal of Digital Forensics, Security and Law (JDFSL), Issue 9, Issue 1, pp. 67-82, 2014. Note: This paper supersedes the conference version from ADFSL 2014 below.

[**JL05**] Shams Zawoad, Marjan Mernik, and **Ragib Hasan**. “Towards Building A Forensics Aware Language For Secure Logging”, Journal of Computer Science and Information Systems (ComSIS), Volume 11, Issue 4, pp. 1291-1314, 2014.

[**JL04**] Kazi Zunnurhain, Susan Vrbsky, and **Ragib Hasan**, “FAPA: Flooding Attack Protection Architecture in a Cloud System”, International Journal of Cloud Computing, Volume 3, Issue 4, pp. 379–40, 2014.

[**JL03**] Shams Zawoad and **Ragib Hasan**, Towards Building Proofs of Past Data Possession in Cloud Forensics, Academy of Science and Engineering Journal, Volume 1, Issue 4, pp. 195-207, 2012.

[**JL02**] **Ragib Hasan**, Radu Sion, and Marianne Winslett, “Preventing History Forgery with Secure Provenance”, ACM Transactions on Storage (TOS), Volume 5, Issue 4, pp 1–43, December 2009.

[**JL01**] Athol J. Kemball, Richard M. Crutcher, and **Ragib Hasan**, “A Component-based Framework for Radio-astronomical Imaging Software Systems”, Software: Practice and Experience (SP&E), Volume 38, Issue 5, pp. 493-507, April 2008.

**Peer-reviewed Book Chapters**

[**BK05**] **Ragib Hasan** and Shams Zawoad, “Privacy in the Cloud”, in “Privacy in a Digital, Networked World - Technologies, Implications and Solutions”, Sherali Zeadally and Mohamad Badra (editors), Computer Communications and Networks Series, Springer Verlag, 2015.

[**BK04**] Shams Zawoad and **Ragib Hasan**, “Cloud Forensics”, in “Encyclopedia of Cloud Computing”, San Murugesan and Irena Bojanova (editors), Wiley-IEEE Press, ISBN-13: 978-1118821978;

ISBN-10: 1118821971, 2015.

[**BK03**] **Ragib Hasan**, “Security and Privacy in Big Data and Cloud Computing: Challenges, Solutions, and Open Problems”, in *Advances in data processing techniques in the era of Big Data*, CRC Press, 2013.

[**BK02**] **Ragib Hasan**, Marianne Winslett, Soumyadeb Mitra, Windsor Hsu, and Radu Sion, “Trustworthy Record Retention”, in *The Handbook of Database Security: Applications and Trends*, M. Gertz and S. Jajodia (editors), Springer Verlag, 2007.

[**BK01**] Dongyi Li, Will Winsborough, **Ragib Hasan**, and Marianne Winslett, “Database Issues in Trust Management and Trust Negotiation”, in *The Handbook of Database Security: Applications and Trends*, M. Gertz and S. Jajodia (editors), Springer Verlag, 2007.

## Peer-reviewed Conference

### 2015

[**C44**] Shams Zawoad, **Ragib Hasan**, and John Grimes, “LINCS: Towards Building a Trustworthy Litigation Hold Enabled Cloud Storage System”, To appear in Proceedings of the 15th Annual DFRWS Digital Forensics Conference, Philadelphia, PA, August 2015.

[**C43**] Shams Zawoad and **Ragib Hasan**, “FAIoT : Towards Building a Forensics Aware Eco System for the Internet of Thing”, In Proceedings of the 12th IEEE International Conference on Services Computing (SCC), New York, USA, June 2015.

[**C42**] Shams Zawoad, **Ragib Hasan**, and Anthony Skjellum, “OCF: An Open Cloud Forensics Model for Reliable Digital Forensics”, In Proceedings of the 8th IEEE Conference on Cloud Computing (IEEE Cloud), New York, June 2015. (Acceptance rate 14%)

[**C41**] Maziar Foutohi, Abhishek Anand, and **Ragib Hasan**, “PLAG: Practical Landmark Allocation for Cloud Geolocation”, In Proceedings of the 8th IEEE Conference on Cloud Computing (IEEE Cloud), New York, June 2015.

[**C40**] Rasib Khan and **Ragib Hasan**, “MIDEP: Multiparty Identity Establishment Protocol for Decentralized Collaborative Services”, In Proceedings of the 12th IEEE International Conference on Services Computing (SCC), New York, USA, June 2015.

[**C39**] Rasib Khan and **Ragib Hasan**, “Fuzzy Authentication using Interaction Provenance in Service Oriented Computing”, To appear in Proceedings of the 12th IEEE International Conference on Services Computing (SCC), New York, June 2015.

[**C38**] Rasib Khan, **Ragib Hasan**, and Jinfang Xu, “SEPIA: Secure-PIN-Authentication-as-a-Service for ATM using Mobile and Wearable Devices”, In Proceedings of the 3rd International Conference on Mobile Cloud Computing, Services, and Engineering, San Francisco (IEEE Mobile Cloud), March 2015.

[**C37**] **Ragib Hasan**, Md. Mahmud Hossain, Rasib Khan, “Aura: An IoT based Cloud Infrastructure for Localized Mobile Computation Outsourcing”, In Proceedings of the 3rd International Conference on Mobile Cloud Computing, Services, and Engineering, San Francisco (IEEE Mobile Cloud), March 2015.

[**C36**] Shams Zawoad and **Ragib Hasan**, “Towards a Systematic Analysis of Challenges and Issues in Secure Mobile Cloud Forensics”, In Proceedings of the 3rd International Conference on Mo-

ble Cloud Computing, Services, and Engineering, San Francisco (IEEE Mobile Cloud), March 2015.

[C35] Shams Zawoad and **Ragib Hasan**, “FECloud: A Trustworthy Forensics-Enabled Cloud Architecture”, In Proceedings of the 11th Annual IFIP WG 11.9 International Conference on Digital Forensics, Orlando, Florida, January 2015.

## 2014

[C34] Shams Zawoad, **Ragib Hasan**, Gary Warner, and Anthony Skjellum, “UDaaS: A Cloud-based URL-Deduplication-as-a-Service for Big Datasets”, In Proceedings of the 4th IEEE International Conference on Big Data and Cloud Computing (BDCloud 2014), Sydney, Australia, December 2014.

[C33] Suraj Maharjan, Prasha Shrestha, Tamar Solorio, and **Ragib Hasan**, “A Straightforward Author Profiling Approach in MapReduce”, In Proceedings of the 14th edition of the Ibero-American Conference on Artificial Intelligence, Santiago, Chile, November 2014.

[C32] Md Munirul Haque, Sheikh Iqbal Ahamed, Ferdaus Kawsar, Md Adibuzzaman, Md Miftah Uddin, Richard Love, **Ragib Hasan**, Rumana Dowla, and Reza Salim, “Barriers for Breast Cancer (BC) Patients in Rural Bangladesh: Design and Deployment of a Mobile based Solution”, In Proceedings of the 20th Americas Conference on Information Systems (AMCIS 2014), Savannah, Georgia, August 7 – 10, 2014.

[C31] Khalid Bijon, Md Munirul Haque, and **Ragib Hasan**, “A TRUst based Information Sharing Model (TRUISM) in MANET in the Presence of Uncertainty”, In Proceedings of the 12th International Conference on Privacy, Security and Trust (PST), Toronto, Canada, July 2014.

[C30] Rasib Khan, Shams Zawoad, Md Munirul Haque, and **Ragib Hasan**, “Who, When, and Where? Location Proof Assertion for Mobile Devices”, In Proceedings of the 28th Annual IFIP WG 11.3 Working Conference on Data and Applications Security and Privacy (DBSEC), Vienna, Austria, July 14-16, 2014.

[C29] Shams Zawoad, Md. Haque, and **Ragib Hasan**, “CURLA: Cloud-Based Spam URL Analyzer for Very Large Datasets”, In Proceedings of the 7th IEEE International Conference on Cloud Computing June 27–July 2, 2014, Alaska, USA. (Acceptance Rate 20%).

[C28] Shahid Noor, Md. Haque, and **Ragib Hasan**, “CellCloud: A Novel Cost Effective Formation of Mobile Cloud Based on Bidding Incentives”, In Proceedings of the 7th IEEE International Conference on Cloud Computing June 27–July 2, 2014, Alaska, USA. (Acceptance Rate 20%).

[C27] Abu Awal Md Shoeb, Ragib Hasan, Md. Haque, and Meng Hu, “A Comparative Study on I/O Performance between Compute and Storage Optimized Instances of Amazon EC2”. In Proceedings of the 7th IEEE International Conference on Cloud Computing (IEEE Cloud), Work in Progress Track, June 27– July 2, 2014, Alaska, USA.

[C26] Rasib Khan, Shams Zawoad, Md. Haque, and **Ragib Hasan**, “OTIT: Towards Secure Provenance Modeling for Location Proofs”, in Proceedings of the 9th ACM Symposium on Information, Computer and Communications Security (ASIACCS), Kyoto, Japan, June 2014.

[C25] Rasib Khan and **Ragib Hasan**, “SecP2PSIP: A Distributed Overlay Architecture for Secure P2PSIP”, The 3rd ASE International Conference on Cyber Security 2014, Stanford, CA, USA, May 27-31, 2014.

[C24] Rasib Khan, Mainul Mizan, **Ragib Hasan**, and Alan Sprague, “Hot Zone Identification:



Analyzing Effects of Data Sampling on Spam Clustering”, ADFSL Conference on Digital Forensics, Security and Law Richmond, VA, USA, May 2014.

[C23] Thamar Solorio, **Ragib Hasan**, and Mainul Mizan, “Sockpuppet Detection in Wikipedia: A Corpus of Real-World Deceptive Writing for Linking Identities”, In Proceedings of the 9th International Conference on Language Resources and Evaluation (LREC), Reykjavik, Iceland, May 2014.

## 2013

[C22] Rasib Khan, Md Munirul Haque, and **Ragib Hasan**, “A Secure Location Proof Generation Scheme for Supply Chain Integrity Preservation”, In Proceedings of IEEE International Conference on Technologies for Homeland Security, Waltham, MA, November, 2013.

[C21] Md Munirul Haque, Shams Zawoad, and **Ragib Hasan**, “Secure Techniques and Methods for Authenticating Visually Impaired Mobile Phone Users”, In Proceedings of IEEE International Conference on Technologies for Homeland Security, Waltham, MA, November, 2013.

[C20] Shams Zawoad, Amit Dutta, Alan Sprague, **Ragib Hasan**, and Jason Britt, Phish-Net: Investigating Phish Clusters Using Drop Email Addresses”, In Proceedings of the 2013 APWG eCrime Researchers Summit, San Francisco, CA, September 17-18, 2013.

[C19] Amit K. Dutta and **Ragib Hasan**, How Much Does Storage Really Cost? Towards a Full Cost Accounting Model for Data Storage, In Proceedings of the Proceedings of the 10th International Conference on Economics of Grids, Clouds, Systems, and Services (GECON), Spain, September, 2013.

[C18] **Ragib Hasan** and Randal Burns, The Life and Death of Unwanted Bits: Towards Proactive Waste Data Management in Digital Ecosystems, In Proceedings of the Proceedings of the 3rd International Conference on Innovative Computing Technology (INTECH), London, August 2013.

[C17] Shams Zawoad, Marjan Mernik , and **Ragib Hasan**, “FAL: A Forensics Aware Language for Secure Logging”, In Proceedings of WAPL13, Federated Conference on Computer Science and Information Systems (FedCSIS), August 2013.

[C16] Mainul Mizan, Md Lutfor Rahman, Rasib Khan, Munirul Haque, and **Ragib Hasan**, “Accountable Proof of Ownership for Data using Timing Element in Cloud Services”, In Proceedings of the International Symposium on Cloud Computing and Services for High Performance Computing Systems (InterCloud-HPC), June 2013.

[C15] Shams Zawoad, Amit Dutta, and **Ragib Hasan**, “SecLaaS: Secure Logging-as-a-Service for Cloud Forensics”, In Proceedings of the 8th ACM Symposium on Information, Computer and Communications Security (ASIACCS), May 2013. (Acceptance rate: 16.2%)

[C14] **Ragib Hasan**, Nitesh Saxena, Tzipora Halevi, Shams Zawoad, and Dustin Rinehart, “Sensing-Enabled Channels for Hard-to-Detect Command and Control of Mobile Devices”, In Proceedings of the 8th ACM Symposium on Information, Computer and Communications Security (ASIACCS), May 2013. (Acceptance rate: 16.2%)

## 2012

[CW13] Shams Zawoad and **Ragib Hasan**, ”I Have the Proof: Providing Proofs of Past Data Possession in Cloud Forensics”, In Proceedings of the ASE International Conference on Cyber Security, December 2012. (Acceptance rate: 9.4%)

[C12] Shams Zawoad and **Ragib Hasan**, “The Enemy Within: The Emerging Threats to Healthcare from Malicious Mobile Devices”, In Proceedings of the 3rd International Conference on Wireless Mobile Communication and Healthcare (MobiHealth), November 2012.

[C11] Patrick Butler, Adam Rhodes, and **Ragib Hasan**, “MANTICORE: Masking All Network Traffic via IP Concealment with OpenVPN Relaying to EC2”, In Proceedings of the 5th IEEE International Conference on Cloud Computing(IEEE Cloud), June 2012.

## 2011

[C10] **Ragib Hasan** and Marianne Winslett, “Efficient Audit-based Compliance for Relational Data Retention”, regular paper, In Proceedings of the 6th ACM Symposium on Information, Computer and Communications Security (ASIACCS), Hong Kong, 2011 (acceptance 35/217 = 16.12%).

## 2010 and earlier

[C09] **Ragib Hasan** and Marianne Winslett, “Trustworthy Vacuuming and Litigation Holds in Long-term, High-integrity Records Retention”, Proceedings of the 13th International Conference on Extending Database Technology (EDBT), Lausanne, Switzerland, March 2010. (acceptance 54/307= 18%)

[C08] **Ragib Hasan**, Radu Sion, and Marianne Winslett, “The Case of the Fake Picasso: Preventing History Forgery with Secure Provenance”, Proceedings of the 7th USENIX Conference on File and Storage Technologies (FAST), February 2009. (acceptance 23/102=22.5%)

[C07] **Ragib Hasan**, Rakesh Bobba, and Himanshu Khurana, Analyzing NASPINet Dataflows, IEEE Power System Conference and Expo (PSCE), Seattle, Washington, March 15-19, 2009.

[C06] **Ragib Hasan**, Radu Sion, and Marianne Winslett, “Remembrance: The Unbearable Sentience of Being Digital”, 4th Biennial Conference on Innovative Data Systems Research (CIDR), January 2009 (Perspectives Track).

[C05] **Ragib Hasan**, Richard Conlan, Brian Slesinsky, Nandu Ramani, and Marianne Winslett, “Please Permit Me: Stateless Delegated Authorization in Mashups”, Annual Computer Security Applications Conference (ACSAC), Anaheim, CA, December 2008. (acceptance 42/173=24.2%)

[C04] **Ragib Hasan** and Marianne Winslett, “Synergy: A Trust-aware, Policy-driven Information Dissemination Framework”, IEEE International Conference on Intelligence and Security Informatics (ISI 2006), San Diego, USA, May 23-24, 2006.

[C03] **Ragib Hasan**, Zahid Anwar, William Yurcik, Roy Campbell, “A Survey of Peer-to-Peer Storage Techniques for Distributed File Systems”, IEEE International Conference on Information Technology (ITCC), Las Vegas, NV, April 2005.

[C02] Joseph Tucek, Paul Stanton, Elizabeth Haubert, **Ragib Hasan**, Larry Brumbaugh, and William Yurcik, “Trade-offs in Protecting Storage: A Meta-Data Comparison of Cryptographic, Backup/Versioning, Immutable/Tamper-Proof, and Redundant Storage Solutions,” 22nd IEEE - 13th NASA Goddard Conference on Mass Storage Systems and Technologies (MSST), Monterey CA USA, April 2005.

[C01] **Ragib Hasan**, Joseph Tucek, Paul Stanton, William Yurcik, Larry Brumbaugh, Jeff Rosendale, and Roelof Boonstra, “The Techniques and Challenges of Immutable Storage for

Applications in Multimedia”, IS&T/SPIE International Symposium Electronic Imaging / Storage and Retrieval Methods and Applications for Multimedia (EI121), San Jose, CA, January 2005.

## Peer-reviewed Workshops

### 2013

[W11] Thamar Solorio, **Ragib Hasan**, and Mainul Mizan, “A Case Study of Sockpuppet Detection in Wikipedia”, In Proceedings of the NAACL/HLT Workshop on Language Analysis in Social Media (LASM), 2013.

### 2012

[W10] Edward Ferguson, Joseph Weber, and **Ragib Hasan**, ”Cloud-based Content Fetching: Using Cloud Infrastructure to Obfuscate Phishing Scam Analysis”, Proceedings of the IEEE 2012 SERVICES Workshop on the Future of Software Engineering for/in the Cloud (FoSEC 2012)

### 2009 and before

[W09] Ragib Hasan, “Protecting the Past and Present of Data with Applications in Secure Provenance and Regulatory Compliant Databases”, Proceedings of the 3rd SIGMOD PhD Workshop on Innovative Database Research (IDAR), Providence, RI, June 28, 2009.

[W08] Jodie P. Boyer, Lars E. Olson, **Ragib Hasan**, Nikita Borisov, Carl A. Gunter, and David Raila, “Improving Multi-Tier Security Using Redundant Authentication”, in the First Computer Security Architecture Workshop (CSAW), in conjunction with ACM CCS, Alexandria, VA, November 2007.

[W07] **Ragib Hasan**, Radu Sion, and Marianne Winslett, “Introducing Secure Provenance: Problems and Challenges”, in Workshop on Storage Security and Survivability (StorageSS 2007), in conjunction with ACM CCS 2007, Alexandria, VA, October 2007.

[W06] **Ragib Hasan**, Marianne Winslett, and Radu Sion, “Requirements of Secure Storage Systems for Health-care Records”, in the 4th VLDB Workshop on Secure Data Management (SDM), in conjunction with 33rd International Conference on Very Large Data Bases (VLDB), University of Vienna, Austria, September 2007.

[W05] **Ragib Hasan** and William Yurcik, “A Statistical Analysis of Disclosed Storage Security Breaches”, in International Workshop on Storage Security and Survivability (StorageSS) in conjunction with 12th ACM Conference on Computer and Communications Security (CCS 2006), October 31, 2006.

[W04] **Ragib Hasan** and William Yurcik, “Beyond Media Hype: Empirical Analysis of Disclosed Privacy Breaches 2005-2006 and a DataSet/Database Foundation for Future Work”, in Workshop on the Economics of Securing the Information Infrastructure (WESII), October, 2006

[W03] William Yurcik and **Ragib Hasan**, “Toward One Strong National Breach Disclosure Law - Justification and Requirements”, in Workshop on the Economics of Securing the Information Infrastructure, October, 2006

[W02] **Ragib Hasan**, Suvda Myagmar, Adam J. Lee, and William Yurcik, “Toward a Threat Model for Storage Systems”, International Workshop on Storage Security and Survivability (StorageSS) in conjunction with 12th ACM Conference on Computer and Communications Security (CCS 2005), November 11, 2005.

[W01] **Ragib Hasan**, William Yurcik, and Suvda Myagmar, “The Evolution of Storage Service Providers: Techniques and Challenges to Outsourcing Storage”, International Workshop on Storage Security and Survivability (StorageSS) in conjunction with 12th ACM Conference on Computer and Communications Security (CCS 2005), November 11, 2005.

### Peer-reviewed Technical Magazines

[MAG03] Rasib Khan, Md Munirul Haque, Ragib Hasan, “Towards Supply Chain Integrity Preservation”, to appear at The Journal of Defense Software Engineering (CrossTalk), Sept 2015.

[MAG02] Shams Zawoad and **Ragib Hasan**, “Digital Forensics in the Cloud”, The Journal of Defense Software Engineering (CrossTalk) Sept 2013, Vol. 26, No 5, pp. 17-20.

[MAG01] Ragib Hasan, Radu Sion, and Marianne Winslett, “Secure Provenance: Protecting the Genealogy of Bits”, USENIX ;login: Magazine, June 2009 issue.

### Journal Papers under submission

[US03] Shams Zawoad, Amit Dutta, and Ragib Hasan, “SecLaaS: Secured Logging-as-a-Service for Cloud Forensics”, in preparation for submission at IEEE Transactions on Dependable and Secure Computing (TDSC). (submitted 2015)

[US02] Ragib Hasan and Marianne Winslett, “Trustworthy and Auditable Databases for Regulatory Compliance”, under submission at ACM Transactions on Database Systems. (Submitted 2014)

[US01] Amit Dutta and Ragib Hasan, “How Much Does Storage Really Cost? Towards a Full Cost Accounting Model for Data Storage”, journal under submission at Elsevier Future Generation Computer Systems, (Submitted 2014).

### Tech Reports

[TR03] Ragib Hasan, Marianne Winslett, and Soumyadeb Mitra, “Efficient Audit-based Compliance for Relational Data Retention”, UIUC Dept. of Computer Science Tech Report, UIUCDCS-R-2009-3044, March 2009.

[TR02] Ragib Hasan, Radu Sion, and Marianne Winslett, “Secure Provenance”, Stony Brook University Tech Report, TR-SB-NSAC-07-2007, November, 2007.

[TR01] William Yurcik, Cristina Abad, Ragib Hasan, Moazzam Saleem and Shyama Sridharan, “UCLog+ : A Security Data Management System for Correlating Alerts, Incidents, and Raw Data From Remote Logs”, ACM Computing Research Repository (CoRR) Tech report cs.CR/0607111, July 2006.

### Undergraduate Research

[UR03] Ragib Hasan, Meetesh Barua, Pradipta P. Mitra , Jalal Uddin Mahmud and Saidur Rahman, ”Design of a Graph Drawing and Visualization System”, Proceedings of the 5th International Conference on Computer and Information Technology (ICIT), Dec 27-28 2002.

[UR02] Pradipta P. Mitra, Ragib Hasan, M. Kaykobad, ”On Linear Time Algorithm for Single Source Shortest Path Problem”, Proc. of the International Conference on Computer and Informa-

tion Technology (ICCIT), Dhaka, Bangladesh, 2001.

[UR01] Pradipta P. Mitra, Ragib Hasan, M. Kaykobad, "A Linear Time Algorithm for Single Source Shortest Path Problem", Proc. of the International Conference on Computer and Information Technology (ICCIT), Dhaka, Bangladesh, December 2000.

### **Internet Publications**

[IP01] Ragib Hasan, "*History of Linux*" available at <http://ragibhasan.com/linux>. This comprehensive article has been translated to Hebrew, Bulgarian, Japanese, Chinese, Romanian, Lithuanian, and Portuguese language. The website for the article has received 365,000 unique visitors since 2002.

## Presentations and Invited Talks

(This list excludes conferences paper presentations)

**[PR13]** The Shikhhok Project: Building an Ultra-low cost Crowdsourced MOOC for Non-English Speaking Students in South Asia.

- Peer-reviewed talk at LWMOOC: Learning with MOOCs – A Practitioner’s Workshop, MIT, Boston, MA, August 12-13, 2014.

**[PR12]** Secure Location Provenance for Mobile Devices, Department of Homeland Security Science and Technology Showcase 2014.

**[PR11]** The Brave New World of Digital Forensics

- Samford University, Cumberland Law Seminar, November 11, 2014.
- Vestavia Hills Sunrise Rotary Club, October 9, 2014 .

**[PR10]** Security in the Dawning of the Age of Aquarius: Musings from a Digital Detective

- UAB Sigma Xi Seminar, September 19, 2014.

**[PR09]** Towards Accountable and Trustworthy Cloud Computing

- CyberDNA Distinguished Seminar Series, University of North Carolina-Charlotte, April 14, 2014.

**[PR08]** Secure Location Provenance for Mobile Devices

- Department of Homeland Security Principal Investigator’s Meeting, October 8, 2013.

**[PR07]** Cloud Computing: A Silver Lining, or Security Nightmare? An Overview of Key Research Problems in Cloud Security.

- Research Colloquium , University of Alabama, Tuscaloosa, Alabama, December 2, 2011.
- UAB Cyber Security Day, October 24, 2011.

**[PR06]** Security and Privacy in Cloud Computing: A High Level View

- NSF Cloud PI Meeting, Arlington, Virginia, March 17, 2011.

**[PR05]** Forgery in the Digital Frontier: Protecting the Genealogy of Bits with Secure Provenance,

- Computer Science Colloquium, Rutgers University, May 19, 2010
- Computer and Information Systems Colloquium, Kansas State University, April 28, 2010
- Computer Science Colloquium, University of Iowa, April 9, 2010

**[PR04]** Fake Picassos, Tampered History, and Digital Forgery: Protecting the Genealogy of Bits with Secure Provenance

- Computer Science Seminar, Johns Hopkins University, February 2, 2010
- Systems Seminar, University of Wisconsin-Madison, November 9, 2009
- CERIAS Security Seminar, Purdue University, September 2, 2009
- Yahoo!-DAIS Seminar, UIUC, May 5, 2009

**[PR03]** Preventing History Forgery with Secure Provenance

- Trust and Security Seminar, ITI, UIUC, February, 2009

**[PR02]** Provenance: Documenting the History of Digital Objects

- CS 591MW2/SB 690 guest lecture, UIUC and Stony Brook University, Spring 2008, Fall 2009

**[PR01]** Breaking the Chip: Vulnerabilities of Cryptographic Processors and Smart Cards

- CS 563 guest lecture, UIUC, Spring 2006

## Posters

(Excludes posters associated with accepted conference papers.)

[PS08] A Distributed Security Architecture for P2PSIP, IEEE Symposium on Security & Privacy, May, 2013 .

[PS07] StuxMob: A Situational-Aware Malware for Targeted Attack on Smart Mobile Devices, IEEE Symposium on Security & Privacy, May, 2013.

[PS06] SPROV 2.0: A Highly-Configurable Platform-Independent Library for Secure Provenance, ACM CCS, November 2009.

[PS05] SPROV: A Library for Secure Provenance, USENIX Annual Technical Conference, June 2009.

[PS04] Secure Provenance for Digital Objects, Midwest Database Workshop, October 2008.

[PS03] Context Based Automated Attribute Generation in Ubiquitous Systems, ITI Dependability Workshop, December 2006.

[PS02] The Ra Anonymizer: A Messaging System for Anonymous Communication, CS Department Affiliates Conference, April 2006.

[PS01] Synergy: A Policy-driven Information Sharing Infrastructure, ResCUE Project All Hands Meeting, Irvine, California, January, 2006.

## INTELLECTUAL PROPERTY DISCLOSURES

[IPD05] **Ragib Hasan**, Rasib Khan, Shams Zawoad, and Md. Haque, "WORAL: Secure Location Provenance for Mobile Devices", UAB Research Foundation Intellectual Property Disclosure #U2015-0014, Fall 2014

[IPD04] **Ragib Hasan** and Md. Haque, "A Novel Smartphone based Approach to Prevent Drunken Driving", Spring 2013.

[IPD03] **Ragib Hasan** and Md. Haque, "HIPAA Compliant Mobile Application for Reducing the Risk of 'Economy Class Syndrome", Spring 2013.

[IPD02] **Ragib Hasan** and Md. Haque, "Low Cost Smart Navigation Glass for Blind People", Spring 2013.

[IPD01] **Ragib Hasan**, "Digital Data Waste Management", UAB Research Foundation Intellectual Property Disclosure #2012-0066, Spring 2012

## HONORS AND AWARDS

### Academic and Research Awards

- Winner of 2015 STOP OBESITY Challenge, Mid-South Trans-disciplinary Collaborative Center for Health Disparities Research.
- Recipient of 2014 NSF CAREER Award.
- Recipient of 2014 Deutsche Welle The Best of Blogs and Online Activism Award (Best Innovation, both Jury and User Award) for the BanglaBraille project.
- Recipient of 2013 Information Society Innovation Fund (ISIF) Award.
- Recipient of 2013 Google RISE Award.
- Recipient of 2013 Deutsche Welle The Best of Blogs and Online Activism Award (Best Innovation,

User Award).

- Recipient of 2011 Google Faculty Research Award.
- NSF/CRA Computing Innovation Fellowship, 2009-2011. (acceptance < 5% for International students, < 12% overall)
- USENIX Technical student grant, 2009
- SIGMOD student travel grant, 2009
- USENIX FAST student grant, 2009
- CIDR Graduate student scholarship, 2009
- Inducted into **Tau Beta Pi** Engineering Honor Society, 2007.

Bangladesh University of Engineering and Technology

- University Gold Medal for graduating Summa Cum Laude in the entire University, 2003
- Sharfuddin Gold Medal for graduating Summa Cum Laude in the CSE Department, 2003
- Dean's List Award, 1998-2002
- Best Student Award, 2000

#### **Programming Contests**

- Runner-up, ACM International Collegiate Programming Contest, Asia Regional, 2001
- Runner-up, National Computer Programming Contest, 2000

#### **Others**

- Invited Speaker, 3rd Johurul Hoque–Abdullah Al-Muti Shorfuddin Memorial Lecture, 01/2007.



## Service

- INTERNAL SERVICE
- **Faculty Director:** Software Engineering and Prototyping Lab, UAB CIS, Since January 1, 2015.
  - **Course Master:** CS 250 (till 12/2014), CS 330 (from 1/2015).
  - **Level 1 Exams:** Set problems for Level 1 Exam, Systems Section (January 2015).
  - **Member:** NSF CAREER Award Proposal Training Committee, UAB, 2015.
  - **Faculty Mentor:** ACM Chapter, UAB Department of Computer and Information Sciences, Since January 2015.
  - **Chair:** UAB CIS Graduate admissions outreach committee, Since Fall 2014.
  - **Member:** Faculty Search Committee, Department of Computer and Information Sciences, University of Alabama at Birmingham, Spring 2013.
  - **Coach and Mentor:** UAB CIS Programming Language team, Since Fall 2013.

- PROFESSIONAL SERVICE
- **Member:** NIST Cloud Forensics Standards Working Group, National Institute of Standards and Technology (NIST), (2014-current)

- **Member of the Editorial Board,** International Journal on Internet and Distributed Computing Systems (<http://www.ijidcs.org/index.html>)

- **Journal reviewer:**

- Sustainability (2015).
- IEEE Transactions on Cloud Computing (2015)
- IEEE Transactions on Emerging Topics in Computing (TETC) (2015)
- Concurrency and Computation: Practice and Experience (2014).
- ACM Transactions on Information and System Security (TISSEC) (2014, 2013).
- IEEE Transactions on Information Forensics & Security (2014, 2013, 2012).
- IEEE Wireless Communications Magazine (2014).
- Elsevier Future Generation Computer Systems (2014).
- IEEE Transactions on Dependable and Secure Computing (TDSC) (2014, 2013).
- IEEE Transactions on Knowledge and Data Engineering (2015, 2013, 2012).
- IEEE Transactions on Database Systems (2013, 2012).
- IEEE Computer Special issue on Cybersecurity (2013).
- IEEE Transactions on Smart Grid (2011).
- Journal of Systems and Software, Elsevier (2012, 2010).
- Information Sciences, Elsevier (2010).
- The VLDB Journal (2013, 2012, 2011, 2010, 2008)

- **Member of the Editorial Advisory Board:** “Advancements in Distributed Computing and Internet Technologies: Trends and Issues”, Scheduled to be released by IGI-Global, 2011. (<http://bit.ly/bj0uLq>)

- **Program Committee:**

- IEEE Big Data Congress (2015)
- IEEE Conference on Mobile Cloud Computing (2015)
- The First International Symposium on Dependability in Sensor, Cloud, and Big Data Systems and Applications (DependSys) (2015)
- ACM Symposium on Information, Computer and Communications Security (ASIACCS) (2014, 2013)
- Annual WG 11.3 Conference on Data and Applications Security and Privacy (DBSec) (2014, 2013, 2012, 2011, 2010)
- ACM International Workshop on Security in Cloud Computing (2014, 2013)
- International Conference on Management of Emergent Digital EcoSystems (MEDES), (2014)

- International Conference on Networking Systems and Security (NSys) (2015)
  - Workshop on Network Surveillance and Intruder Detection Technologies (NetSID), (2014)
  - The Eleventh ACS/IEEE International Conference on Computer Systems and Applications (AICCSA) (2013)
  - IEEE International Conference on Intelligence and Security Informatics (ISI) (2012)
  - IEEE Signature Conference on Computers, Software, and Applications (COMPSAC) (2012)
  - 4th USENIX Workshop on the Theory and Practice of Provenance (TaPP) (2012)
  - International Conference on Emerging Intelligent Data and Web Technologies (EIDWT), (2011)
  - International Workshop on Using P2P, Grid and Agents for the Development of Content Networks (UPGRADE-CN), (2011)
  - International Conference on Network and System Security (NSS), (2010)
  - International Conference on Security and Cryptography (SECRYPT), (2010)
  - Workshop in Information Security Theory and Practice (WISTP), (2010)
  - IEEE International Workshop on Internet and Distributed Computing Systems (IDCS) (2015, 2014, 2010, 2009, 2008)
  - ACM International Workshop on Storage Security and Survivability (StorageSS), (2005)
- **Web and Proceedings Chair:** ACM Workshop on Privacy in the Electronic Society (WPES), (2008).
  - **External Reviewer:** SIGMOD, VLDB, ICDE, CCS, IEEE S&P, Policy, IFIP-TM, SSDBM, WWW, SACMAT, ESORICS, PET Symposium, MSW, ICICT, iTrust, Reactivity on the Web, EDBT, WIA, PASSAT, USENIX FAST.

PROFESSIONAL  
AFFILIATIONS

- Honor Society: Tau Beta Pi
- Professional member, ACM, IEEE

VOLUNTEER  
ACTIVITIES

- Member, UIUC Advisory Committee on International Student & Scholar Services, 2009.
- Core Member, Bangladesh Open Source Network, 2006-current.
- Emergency translator/interpreter, Office of International Student and Scholar Services, University of Illinois at Urbana-Champaign. 2006-2009.
- Mentor, UIUC CS Department Women in Computer Science Undergraduate Mentor program, 2009.
- Mentor for International Students, International Student Office, UIUC. 2007-2009.
- New graduate student mentor, Department of Computer Science, University of Illinois at Urbana-Champaign. 2007-2009.
- Director, BUET Dept. of Computer Science and Engineering Alumni Association of North America. 2007-current.
- Webmaster, BUET Dept. of Computer Science and Engineering Alumni, [www.csebu.net.org](http://www.csebu.net.org), 2005-current

EXTRA-CURRICULAR  
ACTIVITIES

- Administrator, English Wikipedia, 2005-current.
- Bureaucrat and Administrator, Bengali Wikipedia, 2006-current.
- Founder, Shikhhok.com – a Bengali language MOOC site.

MEDIA  
APPEARANCES

- My work on Shikhhok.com – a massive online open course site in Bengali language has been covered by Deutsche-Welle World Service Radio in 2012.
- My work on Shikhhok.com and the Google RISE award was covered by all major Bengali and English language newspapers in Bangladesh in February 2013.

- My work on digital data waste problem have been covered by MIT Technology Review's ArXiv blog in 2011. "The Hidden Damage From Waste Data (And How To Deal With It)" <http://www.technologyreview.com/blog/arxiv/26962/>
- UAB News Story, featured in UAB homepage, "UAB - UAB researcher's work in Asia wins Google RISE Award", <http://www.uab.edu/news/latest/item/3185-uab-researchers-work-in-asia-wins-google-rise-award>, February 2013.
- UAB News Story, featured in UAB homepage, "UAB wins grant from DHS for securing mobile devices", <http://www.uab.edu/news/latest/item/3124-uab-wins-grant-from-dhs-for-securing-mobile-devices>, February 2013.
- UAB Magazine Feature Story, "Secrets of the Clouds". <http://www.uab.edu/uabmagazine/2012/march/secretsofthecloud>, March 2012.
- La Recherche, a leading French science magazine, featured my work on Data Waste and also published my interview at their September 2011 issue.
- My work and views regarding Wikipedia in India and South Asia, and contributions in Bengali Wikipedia were covered in a front-page news article titled, "Wiki learns a lesson in Bengali", in The Daily Telegraph, India, July 14, 2010. ([http://www.telegraphindia.com/1100714/jsp/frontpage/story\\_12681775.jsp](http://www.telegraphindia.com/1100714/jsp/frontpage/story_12681775.jsp))
- Interviewed by Deutsche-Welle World Service Radio (2009) for my pioneering work on Bengali Wikipedia. (<http://www.dw-world.de/dw/article/0,,3917247,00.html>)
- Interviewed by BBC World Bengali Service Radio (2006) for my pioneering work on Bengali Wikipedia.
- Ekti Songkhipto Ragib-Kosh (Brief story of Ragib) - part of the profile of 10 emerging young talents, Chhutih Dine magazine, Daily Prothom Alo, April 12, 2008.
- Wikipedia Weekly - an online podcast focused on Wikipedia featured a half-hour panel discussion (part of a special episode) among me, and two other editors, March 2007. <http://wikipediaweekly.org/?p=30>
- Bengali Wikipedia crosses 10,000 articles , IANS, Syndicated in Monsters and Critics, a popular Tech Blog, September 30, 2006. ([http://www.monstersandcritics.com/tech/news/article\\_1206718.php/Bengali\\_Wikipedia\\_crosses\\_10\\_000\\_articles](http://www.monstersandcritics.com/tech/news/article_1206718.php/Bengali_Wikipedia_crosses_10_000_articles))
- Interview: "Mukto Bisshokosher Ragib" (Ragib from the Open Encyclopedia), Daily Prothom Alo, December 22, 2006.

## Mentoring Activities

CURRENT PHD STUDENTS	<p>I am the PhD advisor of the following students:</p> <ul style="list-style-type: none"><li>• Shams Zawoad (Since Spring 2012, expected graduation: Spring 2016. Level 1: Passed Jan 2014, Level 2: Passed Nov 2014)</li><li>• Rasib Hassan Khan (Since Fall 2012, expected graduation: Spring 2016, Level 1: Passed Jan 2014, Level 2: Passed Jan 2015)</li><li>• Shahid Noor (Since Spring 2013, expected graduation: Fall 2016, Level 1: Passed Jan 2015, Level 2 planned: Fall 2015)</li><li>• Mohammad Kamrul Islam (Since Fall 2014, expected graduation: Fall 2019)</li><li>• Md. Mahmud Hossain (Since Fall 2014, expected graduation: Fall 2019)</li></ul>
CURRENT MS STUDENTS	<p>I am the advisor of the following students:</p> <ul style="list-style-type: none"><li>• Abu Shoeb (Since Fall 2013, graduating Spring 2015, going to Rutgers next for PhD)</li><li>• Jinfang Xu (Since Summer 2014)</li><li>• Mazier Foutohi (Since Fall 2014)</li></ul>
GRADUATED STUDENTS	<p>Masters</p> <ul style="list-style-type: none"><li>• Mainul Mizan (Graduated December 2013), First employment: Software Engineer at Amazon.com</li><li>• Amit Kumar Dutta (Graduated Spring 2014), First employment: Software Engineer at VMWare</li></ul> <p>Co-advised PhD</p> <ul style="list-style-type: none"><li>• Kazi Zunnurhain, UA (Summer 2014, coadvised with Dr. Susan Vrbsky of University of Alabama) (I was Kazi's co-advisor for the last year of his PhD. My responsibilities included bi-weekly meetings with him to supervise him and collaborate with him for part of his PhD research which involved cloud security.) First Employment: Assistant Professor of Computer Science, Odessa College, TX. Current Employment: Assistant Professor, Computer Science, Northern Kentucky University.</li></ul>
SUPERVISED POSTDOCTORAL FELLOWS	<p>I supervised the following Postdoctoral Fellow:</p> <ul style="list-style-type: none"><li>• Md. Munirul Haque (November 2012-July 2014) First Employment: Research Scientist, Purdue University</li></ul>
PHD THESIS SUPERVISION	<p>Besides my advisees, I am in the PhD thesis committee of the following students:</p> <ul style="list-style-type: none"><li>• Himel Mallick, Department of Biostatistics, University of Alabama at Birmingham, Graduating Spring 2015.</li><li>• Kazi Zunnurhain, Department of Computer Science, University of Alabama, Graduated Spring 2014.</li></ul>
UNDERGRADUATE HONORS THESIS SUPERVISION	<p>I have supervised the BS Honors thesis of the following student:</p> <ul style="list-style-type: none"><li>• Cooper Filby, "Development of a Secure Group Chat Smartphone Application for Intra-Hospital Communication", Department of Computer and Information Sciences, University of Alabama at Birmingham, Spring 2013.</li></ul>
REFERENCES	<p>Available upon request.</p>