

## Abu Awal Md Shoeb

Graduate Student, Dept. of Computer Science  
Rutgers University, New Brunswick, NJ

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**Profile** Research experience in Green Computing, Green Data Center, Cloud Computing (Amazon EC2 and S3), Cyber Security, Hadoop, Data Mining, Machine Learning, Proficient in Domain Hosting and Web Development

**Education** **Rutgers University, New Brunswick, NJ**  
PhD in Computer Science. *Fall 2015 - present*

**University of Alabama at Birmingham (UAB)**  
M.Sc. in Computer and Information Sciences, *Spring 2015*

**Shahjalal University of Science and Technology (SUST), Bangladesh**  
B.Sc. in Computer Science and Engineering (GPA 3.70/4.00), August 2008

### Work Experience

**Rutgers University, New Brunswick, NJ**  
*Teaching Assistant, Dept. of Computer Science, Fall 2015 - present*

#### **MedSnap LLC, Birmingham, Alabama**

Software Engineer Intern, *Summer 2014 and 2015*

- *Medication Safety and Data Visualization that include Performance analysis of OpenCV application in EC2, use of Amazon S3 for large image data and d3 JavaScript framework for data visualization.*

#### **University of Alabama at Birmingham (UAB)**

Research Assistant, SeCuRE and Trustworthy Computing Lab (SECRETLab), *Fall 2013-Spring 2015*

#### **Shahjalal University of Science and Technology (SUST), Bangladesh**

Lecturer, Dept. of Computer Science and Engineering, July 2009 – July 2013

#### **United Nations Development Programme (UNDP), Bangladesh**

e-Service Programmer, *December 2008 – June 2009*

#### **Center for Research Testing and Consultancy, CSE, SUST**

Coordinator, August 2009 – June 2010

- Designed and implemented first ever mobile SMS based registration system for undergraduate admission test at SUST, Bangladesh

#### **Criss Cross Computers, Sylhet, Bangladesh** (www.crisscrossbd.com)

Co-Founder, *2006 - present*

- Designed and implemented first ever e-payment system for university students in Bangladesh

**Selected Research Projects** Design and implementation of global resource manager for green Hadoop and Cassandra, *Fall 2015 - Present*  
Determining and improving the quality of Wikipedia's article from statistical analyses, *Spring 2015*  
Forensics Analysis of a Hard Drive using EnCase, *Spring 2015*

Sockpuppet detection in Wikipedia using machine learning techniques, *Fall 2014*

Spam email campaign Detection using data mining, *Spring 2014*

**Selected Publications** "Spam Campaign Cluster Detection Using Redirected URLs and Randomized Sub-Domains", **Abu Awal Md Shoeb**, Dibya Mukhopadhyay, Shahid Al Noor, Alan Sprague, Gary Warner, Social Informatics 2014, December 14-16, 2014, Cambridge, MA, USA (Best Paper Award)

"A Comparative Study on I/O Performance between Compute and Storage Optimized Instances of Amazon EC2", **Abu Awal Md Shoeb**, Ragib Hasan, Md. Haque, and Meng Hu, IEEE Cloud 2014, June 27 – July 2, Alaska, USA

**Extra Curricular** President, Rutgers Graduate Student Association (GSA), Summer 2016-present

Graduate Mentor, Douglass-DIMACS Computing Corps, Rutgers University, Fall 2015-present

**Computer Skills** Languages: C, Java, Python, HTML, CSS, PHP, JavaScript, MySQL, Oracle, PostgreSQL, Sqlite, MatLab  
Others: Linux, Ubuntu, Cent OS, Amazon EC2 and S3, OpenStack, Hadoop, Latex, Gitorious, Vagrant (a virtual development environment), Joomla, Wordpress  
Data Analysis Tools: JMP, WEKA, d3 JavaScript Framework  
Computer Forensics Tool: EnCase