

Md Mizanur Rahman

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Research Interests	Intersection of security and machine learning, with applications to fraud and malware detection. Software engineering, mobile programming
Education	Florida International University 2013 - 2018 <i>PhD in Computer Science</i>
	Bangladesh University of Engineering and Technology 2004 - 2009 <i>Bachelor of Science in Computer Science</i>
Employment	Florida International University Research Assistant Cyber Security and PRivacy(CaSPR), Miami, FL 2015 - Present <ul style="list-style-type: none">• Conduct research to develop effective solutions to ensure a trustworthy use of mobile and social networks.
	Florida International University Teaching Assistant School of Computing and Information Sciences, Miami, FL 2013 - 2015 <ul style="list-style-type: none">• Java Programming, Survey of Database Systems, Structured Computer Organization, Data Analysis, Computer Application Business Lab
	iAppDragon Team Lead Dhaka, Bangladesh 2013 <ul style="list-style-type: none">• Lead in design and development of backend systems for Mobile Applications.• Mobile survey tool to get responses from customers for financial services.• Projects: SMS Survey Web Portal, Eat@ Restaurant
	KAZ Software Software Engineer Dhaka, Bangladesh 2010 - 2012 <ul style="list-style-type: none">• Developed web portal and tax management tool for IBFD.• Developed online conversation utility for getting real time public opinion.• Mobile apps for meeting management, family tree and tune generator.• Projects: IBFD Tax Research Web Portal, YourView, TimePal, Tapedelic Tunes, Family Book
	Prolog Inc. Software Engineer Dhaka, Bangladesh 2009 <ul style="list-style-type: none">• Developed several iOS and Android games and utility apps for app stores.• Projects: Food Planner, Amazing Photo Mask, Air Copter, Golden Ball
Current Projects	Fraud detection in google play Developed search rank fraud attribution system that profiles expert workers and identifies the perpetrators in Google Play and also Monitored 87k apps in Google Play for 6 months. Analyzed app metadata using data mining and natural language processing tools.
	Stateless Puzzles for Fraud Preemption Developed a real-time fraud preemption approach that imposes Bitcoin-inspired com-

putational puzzles on the devices that post online system activities, such as reviews and likes.

Reducing Social Networking Risks in Adolescents

Investigate the connection between psychological mechanisms that render adolescents vulnerable to risky social networking behaviors. Develop tools to make adolescents aware of risky decisions and encourage safe choices.

Publications

1. **Md. Mizanur Rahman**, Nestor Hernandez, Bogdan Carbunar and Duen Horng Chau. *Search Rank Fraud De-Anonymization in Online Systems*, Accepted in the 29th ACM Conference on Hypertext and Social Media (HT'18) ACM, 2018
2. **Md. Mizanur Rahman**, Ruben Recabarren, Bogdan Carbunar and Dongwon Lee. *Stateless Puzzles for Real Time Fraud Preemption in Online Systems*, Accepted in the 9th ACM Conference on Web Science (WebSci'17) ACM, 2017
3. Rahul Potharaju, **Md. Mizanur Rahman**, Bogdan Carbunar *A Longitudinal Study of Google Play*, Accepted in the IEEE Transactions on Computational Social Systems (TCSS), 2017.
4. Mahmudur Rahman, **Md. Mizanur Rahman**, Bogdan Carbunar, Duen Horng Chau. *Search Rank Fraud and Malware Detection in Google Play*, Accepted in the IEEE Transactions on Knowledge and Data Engineering (TKDE), 2016.
5. Mahmudur Rahman, **Md. Mizanur Rahman**, Bogdan Carbunar, Duen Horng Chau. *FairPlay: Fraud and Malware Detection in Google Play*, Accepted in the SIAM International Conference on Data Mining (SDM), May 2016.
6. Bogdan Carbunar, **Md. Mizanur Rahman**, Mozghan Azimpourkivi, Debra Davis. *GeoPal: Friend Spam Detection in Social Networks Using Private Location Proofs*, Accepted in The IEEE International Conference on Sensing, Communication and Networking (SECON 2016).
7. Mirfat Akter Sharmin, **Md. Mizanur Rahman**, Syed Ishtiaque Ahmed, Md. Mustafizur Rahman, S. M. Ferdous, *Teaching intelligible speech to the Autistic children by interactive computer games*, accepted in *The ACM Symposium on Applied Computing (ACM SAC)*, Taiwan, China, March 2011, ACM Press
8. Ishrat Ahmed, Samiha Samrose, Shujon Naha, Md. Ridwanur Rahman, Proteek Chandan Roy, **Md. Mizanur Rahman**, Syed Ishtiaque Ahmed, *A-Class: Intelligent Classroom Software for the Autistic Children*, accepted in IEEE Symposium on Computer and Informatics (ISCI), Penang, Malaysia, March 2011, IEEE Computer Society Press

Skills

Languages: Java, Python, R, MySQL, PHP, Java Script, Objective-C, Swift, C, C++
Tools: Weka, JStylo, numpy, Sklearn, DeepWalk, Gephi, iPhoneSDK, Android SDK

Selected Talks

- **ACM WebSci'17**, Troy, NY, June 26, 2017
Stateless Puzzles for Real Time Fraud Preemption in Online Systems
- **FIU GSAW'17**, March 28, 2017
Search Rank Fraud and Malware Detection in Google Play
- **SIAM SDM'16**, Miami, FL, May 5, 2016.
FairPlay: Fraud and Malware Detection in Google Play

Awards

- SIGWEB Student Travel Grant