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## EDUCATION

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- PhD – Computer Science** **Anticipated August 2019**  
Florida International University, Miami, FL
- Bachelor of Science – Computer Science and Engineering** **July 2014**  
Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

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## RESEARCH INTERESTS

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Security and privacy with applications in online and geosocial networks, machine learning, wireless networks, distributed systems, mobile applications

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## WORK EXPERIENCE

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- Graduate Assistant** **Florida International University** **Fall 2014 – Current**
- **Research Assistant:** Cyber Security and Privacy Research (CaSPR) Lab, SCIS, FIU. Advisor: Bogdan Carbunar
  - **Teaching Assistant:** Java Programming (COP 2250), Programming 1 (COP 2210), Introduction to Micro Computers (CGS 2060), Computer Data Analysis (CGS 2518), Computer Applications in Business (CGS 2100).
  - **Mentor:** NSF–DoD REU/RET sites research mentor at FIU (summer 2015, 2016, 2017)
- Software Engineer, Intern** **Samsung R&D Institute Bangladesh (SRBD)** **Fall 2013**  
*Mobile Authentication and Security (MAS) Team*
- Worked on features to improve facial recognition technology for the authentication of Samsung devices.
  - Implemented tools for static and dynamic code analysis for the deployment of Samsung KNOX products.
  - Redesigned some of the authentication user interfaces for the Samsung devices.
- Software Engineer, Intern** **Ministry of Foreign Affairs, Bangladesh** **Spring 2012 – Spring 2013**  
*Consular, Diplomatic Bag and Central Receipt Section*
- Developed and tested automation software for Ministry of Foreign Affairs, Bangladesh.
  - Worked as a team leader of a group of 4 other interns.

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## TECHNICAL SKILLS

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- **Programming:** Java (Expert), C/C++, C#, Python, R, XML, Prolog, Assembly, Unix Shell Scripting, OpenGL.
- **Database:** MySQL (Expert), PostgreSQL, MS SQL Server 2012/2016, Oracle, MS Access.
- **Web:** PHP, HTML5, JavaScript, Ajax, jQuery, CSS. **IDE/Software/Framework:** Android (Expert), ASP.NET, Hadoop, Hive, MS Visual Studio, Eclipse, NetBeans, Appium, Selendroid, JCreator, AVR Studio, MS Office, Adobe (Dreamweaver, Photoshop, Illustrator, Flash), Packet Tracer, MikTex, XAMP/WAMP.

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## NOTABLE PROJECTS

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- FriendSieve: Reducing Social Networking Risks in Adolescents** **April 2017 – Current**
- Developing a novel system to crack down on the risky social networking behaviors in adolescents.
  - Developing tools to discourage risky online decisions and behave safely. (Android, Java, Python, R, Weka)
- AbuSniff: Detection and defenses against abusive Facebook friends** **August 2014 – April 2017**
- Demonstrated various security & privacy vulnerabilities that may originate from friend abuse in Facebook.
  - Performed analysis over crowdsourced user data and implemented AbuSniff, a social network assistant.
  - AbuSniff automatically predicts abusive friend and takes defensive action. (Android, Java, Python, R, Weka)
- USenSewer: Ultrasonic sensor based automated sewerage management** **January 2013 – July 2013**
- Designed and implemented the prototype of an automated sewerage management system using Arduino.
  - Used microcontroller, ultrasonic sensor, NRF and GSM modules to automate the system. (Arduino, C)
- Automation of ministry of foreign affairs, Bangladesh** **January 2012 – January 2013**
- Automated the consular services, central receipt and diplomatic bag sections of MOFA, Bangladesh.
  - Successfully implemented & tested software for govt. services. (C++, Java, Bootstrap, CodeIgniter, MySQL)

## **Eboighar: A state-of-the-art e-commerce platform in Bangladesh**

**February 2012– May 2012**

- Designed and developed a secure, fully transactional and customizable e-commerce platform.
- Eboighar currently has 10 million active users. <https://eboighar.com> (Bootstrap, CodeIgniter, PostgreSQL)

## **DLMS: Digital land management system**

**June 2011 – May 2012**

- Developed an online, automated and interactive land management system for the third world countries.
- Project idea is later adopted by Bangladesh govt. (Android, Google maps, Bootstrap, CodeIgniter, MySQL)

## **HONORS, AWARDS, CERTIFICATES AND ACTIVITIES**

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- ACM WebSci SIGWEB student travel award 2017.
- Best undergraduate thesis poster award 2014.
- Best app developer award 2013 at EATL-Prothom Alo apps development contest.
- Best rover scout award 2009-2014 for scouting activities and community services.
- Champion in inter university project show 2011 and 2013 for best undergraduate projects.
- Education board scholarship 2006 and 2008 for extra-ordinary academic performance.
- Bangladesh government primary scholarship 1999 (top scorer among 1 million students).

## **SELECTED PUBLICATIONS**

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**Sajedul Talukder**, Bogdan Carbutar, *“AbuSniff: Automatic Detection and Defenses Against Abusive Facebook Friends”*, In proceedings of the 12th International Conference on Web and Social Media (ICWSM’18), June 2018 [acceptance rate=16%].

**Sajedul Talukder**, Md. Iftekharul Islam Sakib, Md. Faruk Hossen, Zahidur Rahim Talukder, Md. Shohrab Hossain, *“Attacks and Defenses in Mobile IP: Modeling with Stochastic Game Petri Net”*, In proceedings of the IEEE International Conference on Current Trends in Computer, Electrical, Electronics and Communication" (ICCTCEEC’17), September 2017.

**Sajedul Talukder**, Md. Iftekharul Islam Sakib, Zahidur Rahim Talukder, Upoma Das, Arnob Saha and Nur Sultan Nazar Bayev, *“USenSewer: Ultrasonic Sensor and GSM-Arduino Based Automated Sewerage Management”*, In proceedings of the IEEE International Conference on Current Trends in Computer, Electrical, Electronics and Communication" (ICCTCEEC’17), September 2017.

**Sajedul Talukder**, Bogdan Carbutar, *“When Friend Becomes Abuser: Evidence of Friend Abuse in Facebook”*, In proceedings of the 9th ACM Conference on Web Science (WebSci’17), June 2017.

**Sajedul Talukder**, Md. Iftekharul Islam Sakib, Md. Mustafizur Rahman, *“Digital Land Management System : A new initiative for Bangladesh”*, In proceedings of the 1st IEEE International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT’14), April 2014.

**Sajedul Talukder**, Md. Iftekharul Islam Sakib, Md. Mustafizur Rahman, *“Model for E-Government in Bangladesh: A Unique ID Based Approach”*, In proceedings of the 3rd IEEE International Conference on Informatics, Electronics & Vision (ICIEV’14), May 2014.