

A K M MUBASHWIR ALAM

Wisconsin, USA
Phone (+1) (313)757-2608
Email : mubashwir@gmail.com

Website : <https://taserghar.github.io/>
LinkedIn: www.linkedin.com/in/mubashwir

-
- ## Work Experience
- Software Engineering Intern, [RingCentral Inc.](#), CA, USA [Jun 2021 - Present]
 - Graduate Research Assistant, [Marquette University](#), WI, USA [Aug 2020 - Present]
 - Graduate Research Assistant, [Wright State University](#), OH, USA [Aug 2018 - Jul 2020]
 - Software Engineer II, [Samsung Electronics](#), Dhaka, BD [Feb 2013 - Aug 2018]
- ## Education
- Ph.D. in Computer Science [Aug 2018 - Present]
[Marquette University](#), USA
Research Interest: Privacy Preserving Cloud Computing, which includes secure computation with SGX, Privacy and Security in AI/ML, Data Analytics, Access Pattern protection, etc.
- B.Sc., Computer Science and Engineering [Jan 2009 - Dec 2012]
[American International University Bangladesh \(AIUB\)](#), BD
Thesis: ‘A Dynamic Programming approach to solve Minimum Rectilinear Steiner Tree’
CGPA: **3.75** out of 4.00
- ## Publication
- AKM Mubashwir Alam, Sagar Sharma, and Keke Chen, “SGX-MR: Regulating Dataflows for Protecting Access Patterns of Data-Intensive SGX Applications”, Proceedings of Privacy Enhancing Technologies (PoPETs), 2021
 - Sagar Sharma, AKM Mubashwir Alam, and Keke Chen, “Image Disguising for Protecting Data and Model Confidentiality in Outsourced Deep Learning”, IEEE CLOUD Conference, 2021
 - T.I. Chowdhury, M.M. Rahman, AKM Mubashwir Alam, . . . , Shahriar Rizwan, “A multi-step approach for RSSI-based distance estimation using smartphones”, Networking Systems and Security (NSysS), 2015
- ## Patent
- [System for secure, low cost and efficient indoor positioning and navigation system of Internet of Things objects](#), Md.Mahbubur Rahman, AKM Mubashwir Alam, Md. Tawhidul Islam Chowdhury, . . . , Mohammad Anwarul Hoque, Accepted for US Patent. Samsung Electronics Co., Ltd
- ## Projects
- *[Debug Log Collector for RingCentral Telecommunication](#)* [2021]
 - Build services for scalable, high-performance architecture, which handles terabytes of log data.
 - Build proprietary components and utilize open-source technologies and stacks.
 - Programming Language : C/C++, Python
 - *[Secure outsourced data analytics with SGX](#)* [2019-2021]
 - Developed MapReduce F/W for SGX
 - Developed mitigation methods for access pattern based side channel attacks
 - Programming Language : C/C++
 - *[Samsung Galaxy Watch Manager \(iOS\)](#)* [2016-2018]
 - R&D Works to solve supporting multiple Gears problem for Wearable SDK
 - Developed Connection Module of [Gear S](#), [Gear Fit](#) and [IconX](#)
 - Programming Language : Objective-C
 - *[Distance Estimation using Ultra sound and BLE in Raspberry Pi](#)* [2014-2015]
 - Design an Algorithm to estimate distance using Ultrasound and [BLE](#) communication
 - Programming Language: C/C++, Java
 - *[RSSI-based Proximity Service](#)* [2013-2014]
 - Analyze RSSI based distance models approach
 - Development of Bluetooth Classic/Low Energy features
 - Programming Language: **Java, Android**
- ## Skills
- **Language:** C/C++, Java, Python, JavaScript, Objective C
 - **Technologies:** TEE, Intel SGX, Hadoop, Spark, RocksDB, MySQL, Android, iOS
- ## Awards & Achievements
- **Employee Of The Month Award** for July 2015 and June 2017 at Samsung Electronics.
 - **Professional Level** in Algorithmic Problem Solving Test, internally known as Software Capability Test, 2014 at Samsung Electronics (**Global**).
 - **Dr. Anwarul Abedin Leadership Award for Programming**, 13th Convocation, AIUB, 2013
- ## Problem Solving
- Solved a total of 1000+ competitive problems on [LightOJ](#), [Uva](#), [Codeforces](#) and other online judges.
 - Participated in National and International level Programming Contests during 2010-2012.