

A K M MUBASHWIR ALAM

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Work Experience	<ul style="list-style-type: none">- 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	<p>Ph.D. in Computer Science [Aug 2018 - Present] Marquette University, USA Research Interest: Privacy Preserving Cloud Computing, which includes secure computation with SGX, secure database, data analytics and machine learning.</p> <p>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</p>
Publication	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">• <i>Debug Log Collector for RingCentral Telecommunication</i> [2021]<ul style="list-style-type: none">- 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• <i>Secure outsourced data analytics with SGX</i> [2019-2021]<ul style="list-style-type: none">- Developed MapReduce F/W for SGX- Developed mitigation methods for access pattern based side channel attacks- Programming Language : C/C++• <i>Samsung Galaxy Watch Manager (iOS)</i> [2016-2018]<ul style="list-style-type: none">- 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• <i>Distance Estimation using Ultra sound and BLE in Raspberry Pi</i> [2014-2015]<ul style="list-style-type: none">- Design an Algorithm to estimate distance using Ultrasound and BLE communication- Programming Language: C/C++, Java• <i>RSSI-based Proximity Service</i> [2013-2014]<ul style="list-style-type: none">- Analyze RSSI based distance models approach- Development of Bluetooth Classic/Low Energy features- Programming Language: Java, Android
Skills	<ul style="list-style-type: none">• Language: C/C++, Java, Python, JavaScript, Objective C• Technologies: TEE, Intel SGX, Hadoop, Spark, RocksDB, MySQL, Android, iOS
Awards & Achievements	<ul style="list-style-type: none">- Dr. Anwarul Abedin Leadership Award for Programming, 13th Convocation, AIUB, 2013- Professional Level in Software Capability Test, 2014 at Samsung Electronics (Global).- 2 times Icon Of The Month Award at Samsung Electronics.
Problem Solving	<ul style="list-style-type: none">- 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.