A K M MUBASHWIR ALAM

Ph.D. Student • Software Engineer 5+ years • 6+ Projects • 3 Research Papers • 1 US Patent

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.**, USA   [Jun 2021- Current]
- Graduate Research Assistant, **Marquette University**, USA   [Aug 2020 - Current]
- Graduate Research Assistant, **Wright State University**, USA   [Aug 2018 - Jul 2020]
- Software Engineer II, **Samsung Electronics**, Dhaka, BD   [March 2016 - Aug 2018]
- Software Engineer I, **Samsung Electronics**, Dhaka, BD   [Feb 2013 - March 2016]

Education

Ph.D. in Computer Science   [Aug 2018 - Ongoing]
Marquette University, USA
Research Interest: Privacy Preserving Cloud Computing, which includes secure computation with SGX, secure database, data analytics and machine learning.

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

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-Present]
  - 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**

Publication
- **Three Publications** related to Privacy Preserving Cloud Computing, SGX, Image Disguising for secure Deep Learning, etc.

Patent
- System for secure, low cost and efficient indoor positioning and navigation system of Internet of Things objects, Md. Mahbubur Rahman, **A K M Mubashwir Alam**, Sadre Ala Parvez, Abul Basher,Md. Tawhidul Islam Chowdhury, Abusayeed Alam, Mohammad Anwarul Hoque, Accepted for US Patent. Samsung Electronics Co., Ltd

Skills
- Language

  C/C++, Java, Python, JavaScript, Objective C

- Technlogies

  SGX, Hadoop, Spark, RocksDB, MySQL, Android, iOS

Awards & Achievements
- **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
- Solved more than thousands of competitive problems on *LightOJ*, *UVa*, *Codeforces* and other online judges.
- Participated in National and International level Programming Contests during 2010-2012.