Resume of A K M MUBASHWIR ALAM

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Education

Doctor of Philosophy(Ph.D.) in Computer Science [Aug 2020 - Current]
Marquette University (MU), Wisconsin, USA
Research Interest: System and Software Privacy, Mitigating Side-Channel Attacks on SGX Applications

Doctor of Philosophy(Ph.D.) in Computer Science [Aug 2018 - July 2020]
Wright State University (WSU), Ohio, USA

B.Sc., Computer Science and Engineering [December 2012]
American International University Bangladesh (AIUB), Dhaka, Bangladesh
Thesis: 'A Dynamic Programming approach to solve Minimum Rectilinear Steiner Tree'
CGPA: **3.75** out of 4.00

Work Experience

- **Graduate Research Assistant**, Marquette University [Aug 2020 - Current]
- **Graduate Research Assistant**, Wright State University [Aug 2018 - July 2020]
- **Lead Engineer**, Samsung R&D Bangladesh [Mar 2017 - Aug 2018]
- **Senior Software Engineer**, Samsung R&D Bangladesh [Mar 2015 - Mar 2017]
- **Software Engineer**, Samsung R&D Bangladesh [Feb 2013 - Mar 2015]

Publication

- **A K M Mubashwir Alam**, Sagar Sharma, Keke Chen,
SGX-MR: Regulating Dataflows for Protecting Access Patterns of Data-Intensive SGX Applications,
21st Privacy Enhancing Technologies Symposium (PETS 2021)
- T.I. Chowdhury, M.M. Rahman, Sadre-Ala Parvez, **A.K.M. M. Alam**, Abul Basher, Abusayeed Alam, Shahriar Rizwan, 'A multi-step approach for RSSi-based distance estimation using smartphones', *Networking Systems and Security (NSysS), 2015 International Conference*, ISBN: 978-1-4799-8126-7

Patent

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

Projects

- ***Secure Light Weight MapReduce framework for SGX Enclave*** [2019-2020]
  - Developed MapReduce F/W on SGX to perform data oblivious operations
  - 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

- Academic
  In depth knowledge in Data structures, Algorithms, Computational Geometry, Number Theory, Graph Theory, Network Flows, Probability Theory, NP Completeness, Branch and Bound Techniques.
- Language
  C/C++, Objective C, Java, Python, C#, MySQL, Oracle, PHP

Academic Awards & Other 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 R&D.

Problem Solving

LightOJ - Solved more than **350** problems out of **400+** problems in LightOJ.
UVa - Solved more than **340 problems** in Valladolid Online Judge.
Codeforces - Maximum rating is **Expert 1624 (Blue)**.
Contest - Participated in National and International level Programming Contests during 2010-2012.