Resume of A K M MUBASHWIR ALAM

Cell No. (+1 3136522677, Email : mubashwir@gmail.com

Linked**in** : www.linkedin.com/in/akm-mubashwir-alam-a2a01861

Education	Doctor of Philosophy(Ph.D.) in Computer Science [Fall 2018 - Current] **Wright State University (WSU)**, Ohio, USA Current Position: Graduate Research Assistant Research: Secure Map Reduce F/W on Trusted Execution Environment, Scalable Computing of Sequence data 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' Supervisor: Dr. Mashiour Rahman *CGPA*: **3.75** out of 4.00

Professional Experience

Lead Engineer February, 2013 - August 2018
at **Samsung R&D Institute Bangladesh**, Bangladesh, Samsung Electronics

☐ RESEARCH PROJECT

- ***Distance Estimation using Ultra sound and BLE in Raspberry Pi***
  - Design an Algorithm to estimate distance using Ultrasound and BLE communication
  - Develop BLE communication using linux D-Bus API
  - Programming Language: **C/C++, Java**
- ***RSSI-based Proximity Service***
  - Analyze RSSI based distance models and apply curve fitting approach
  - Development of Bluetooth Classic/Low Energy features
  - Programming Language: **Java, Android**
- ***Text Mining to understand user review***
  - Analyze, preprocessing and generate labelled data manually from Gear Manager user review
  - N-gram, TF-IDF feature extraction and apply Random Forrest algorithm to evaluate models
  - Programming Language: **R**

☐ COMMERCIAL PROJECT

- ***Samsung Gear Manager***
  - R&D Works to solve supporting multiple Gears problem for Wearable SDK
  - Developed Connection Module of Gear S, Gear Fit and IconX
  - Development of Weather Module and other features
  - Programming Language : **Objective-C**

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, R, Octave, 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**).
- **Icon Of The Month Award** for the month of June, 2017 at Samsung R&D Institute Bangladesh.
- **Icon Of The Month Award** for the month of July, 2015 at Samsung R&D Institute Bangladesh.

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

Publication

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

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)**.

Programming Contest Experience

☐ NATIONAL CONTEST
- **Rank** 5th HSTU IUPC 2010, HSTU, Team: AIUB KINGKORTOBBOBIMUR
- **Rank** 9th Quazi Azher Ali Programming Contest 2011, BU, Team: AIUB BIPROTEEP
- **Rank** 10th IUT IUPC 2011, IUT, HSTU , Team: AIUB SINGULARITY
- **Rank** 11th BUET IUPC 2011, BUET , Team: AIUB BIPROTEEP

☐ OTHERS
- **Champion**, Intra University Programming Contest (Individual) 2009, AIUB
- **Runner-up**, Intra University Programming Contest (Team) 2010, AIUB
- Set Problems for LightOJ Problem Volume and other Contests
- Problem Setter and Judge: Intra AIUB Programming Contest 2011, 2012