



## Mohammad Yasin

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[Github](#) , [Linkedin](#) , [Website](#)

### A. Academic Information:

1. Bachelor of Science (Computer Science & Engineering) from [CUET](#) CGPA: 3.42/4.00. Passing: 2015.
2. [H.S.C](#) (Science) from Adamjee Cantonment College, Dhaka GPA: 5.00/5.00. Passing: 2010.
3. [S.S.C](#) (Science) from Bangladesh Navy College, Dhaka GPA: 5.00/5.00. Passing: 2008.

### B. Technical Exposures to:

C, C++, Python, Machine Learning/AI, NLP.

### C. Industry Experience:

**Sr. Software Engineer** ([Samsung R&D Institute, Bangladesh](#)): May 2016 – Feb 2019 (~2 years 9 months)

1. Android development, troubleshooting. Worked with different Android API & Samsung SDKs: [Samsung Health Android SDK](#), [Samsung In-App Purchase SDK](#), [PEN.UP](#), [Foldable display](#) etc, used different libraries [deeplearning4j](#), [LDA-NLP](#), [EventBus](#), [Kryonet](#), [Toasty](#), [ormlite-with-sqlite](#), [Firebase](#) etc, around various concepts: ChatBot, Bluetooth, Location based app, [openstreetmap](#) APIs, Games AI, Google Map([openlayers](#)), Sockets etc.
2. App development with agile team:
  - a. Intelligent Chat Agent (web) to perform Real Time UI/UX Expression based on recent Chat Context. (NLU, LDA, Corpora Based Feature Mapping)
  - b. [ColorPhun](#) Games(Android) Implemented With Deep-learning: Games AI.
  - c. Distributed Client State Monitoring from Central Android Application (IoT).
3. Tizen app development, troubleshooting, Wearable Smart Watch App design/development using different [Tizen Native API and Web API](#), and [Galaxy Watch Designer](#) tool, Web UI and Native Service Integration. Exposures to different APIs: Sensor, Application Framework, Location, ArcGIS, Messaging, UI, Web-Native, Security, System etc. Developed apps: [Browsing with multiple tabs in WebView](#), [System Information Retrieval for GPS and Data Roaming](#), [Named Entity Recognition](#) in Tizen Web Application(NLP) using [Knwl.js](#), Editable Bookmark Widget on Map Application in Tizen ([ArcGIS](#) JavaScript-API based [GIS](#) application),
4. [IoTivity](#) based IoT Hub-Client Bi-directional Communication on Linux and Tizen. Worked on IoT stack of IoTivity in Linux, Tizen & IoT [ARTIK](#) board for client-server based application development.
5. Granted a research fund from Samsung for a PoC & proposal, “[Bixby](#) Automated Speech Recognition (ASR) for Bengali Language”, later collaborated with [BUET](#) professor [Dr. Muhammad Abdullah Adnan](#) and his 5 RAs. Played key role on the development of core ASR processing engine from Samsung side.
6. Regular smart documentation on APIs/project status to maintain agile activity. Writing technical documentation for internal use, dev-tutorials and managerial stuffs.
7. Guided some interns achieving their project goals on time.
8. Open Source Activity:

Tizen Developer Forum( <a href="https://developer.tizen.org/forums">https://developer.tizen.org/forums</a> ):	yasin ali	(username)
Samsung Developer Forum ( <a href="http://developer.samsung.com/forum/en">http://developer.samsung.com/forum/en</a> ):	shihabyasin	(username)
Stackoverflow Developer Forum ( <a href="https://stackoverflow.com/">https://stackoverflow.com/</a> ):	Yasin shihab	(username)

## Résumé

**Sr. Software Engineer (TigerIT Bangladesh Ltd):** Feb 2019 – Present

1. Generalized LVASR (Used: Kaldi, LSTM, Sequence-to-Sequence G2P, CMU-Sphinx etc.)
2. Multi lingual machine translation for chat application (Used: Neural MT, Fairseq, polyglot etc.).
3. Number plate text recognition (OCR) on robust environment (CNN, RNN, CTC, GAN, Attention Model etc.)
4. Scream detection from environment, keyword spotting for audio event detection.
5. Document similarity (TF/IDF etc.) for QA AI stack, topic modelling from short text.
6. Image tempering (fake/real) classification (using VGG, CNN etc.)
7. GPU intensive model training (tf-gpu, CUDA), plans data collection & augmentation techniques (for image & speech), benchmarking etc.
8. Study different research works, Github repos & tutorials, device ways to implepent/integrate in current solutions.
9. Regularly investigating & experimenting different ML/AI product ideas (PoC) that might create business opportunities in local & foreign market.

### ***D. Professional Achievements:***

1. SRBD (Samsung) Icon of the month (July-August 2018) for outstanding contribution to the development of Bangla ASR PoC for Bixby.
2. Samsung Software Certificate: Advanced Level (programming aptitude test).

### ***E. Research***

1. Research publication @Samsung. [Customizing Grapheme-to-Phoneme System for Non-Trivial Transcription Problems in Bangla Language](#). Feb 2019, North American Chapter of the Association for Computational Linguistics (NAACL-HLT 2019), At Minneapolis, USA.
2. [Extracting semantic relatedness for Bangla words](#), technically Co-sponsored by IEEE, IEEE CS, IEICE, IEEE TC-PAMI, IEEJ, JSME, JIN, U of Hyogo. May 2016, 5th International Conference on Informatics, Electronics & Vision (ICIEV)
3. [Isolated Bangla Word Recognition and Speaker Detection by Semantic Modular Time Delay Neural Network \(MTDNN\)](#). Dec 2015, 18th International Conference on Computer and Information Technology (ICCIT), Co-Sponsored by IEEE.
4. [Transitive Closure Using Path Algebra Algorithm](#). Mar 2016, International Journal of Computer Science Issues.