Ishtiaq **Mahmood Amin**

ANDROID / REACT NATIVE DEVELOPER · SOFTWARE ENGINEER

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"The true delight is in the finding out rather than in the knowing."

Summary

Current Android/React Native Developer at Offshore Software Development company Adaptive Enterprise Limited. Analytical and detail oriented programmer specialized in android development, socket programming and both Object-oriented & Functional programming. A reader, teamworker with steller communication skill who loves Linux, android kernel customization and enjoys tweaking the development environment to its efficiency. Interested in devising a better problem-solving method for challenging tasks and learning new technologies and tools when needed.

Work Experience

Adaptive Enterprise Limited
Dhaka, Bangladesh

SENIOR SOFTWARE ENGINEER · *Dec. 2014 - Present*

- Developed, supervised and currently maintaining more than seven of NAPCO Security Technologies biggest state of the art apps to manage home security, home automation, video cameras on Android and React Native utilizing Socket Programming(TCP and UDP), Serial port communication (NDK) , H.264 video decoding, Bluetooth LE(Low Energy), IPC, AIDL, Google Vision api, Realm for Android etc.
- Implemented an in-house stock exchange analysis app with seamless UX/UI maintaining the Material Design guidelines with tools like MPAndroidChart, Realm for Android.
- Designed and developing a React Native app, that aggregates several reputated government/non-government banks, to make a secured payment rail in the national e-commerce field under DOER.

Cloudwell Limited
Dhaka, Bangladesh

SOFTWARE ENGINEER · *Aug. 2013 - Dec. 2014*

- Developed easy-to-use Android apps for the startup, facilitating Paywell's Payment infrastructure from Paywell Services app to in-house applications e.g. Paywell Distributor/Dealer/Collector/Territory Officer app.
- Provisioned backend developers with Servlet +php/Java bridge +Quartz Job Scheduler , by building an app that acts as tiny sms server for TeleTalk REB Bill Payment.
- Java Desktop application (jdk1.6+JavaFX) that pushes sms utilizing SilverStreet sms gateway.
- Worked with Telpo and partially developed Paywell application (with the provided SDK on Embedded-C) on 3 different embedded subsystem POS terminals (TPS300 , KMY801B , MIL300)

AnnaNovas IT
Dhaka, Bangladesh

SOFTWARE ENGINEER (ANDROID) · *Oct. 2011 - Jun. 2013*

- Built several apps using REST api, sqlite, custom views/controls, Google Maps API (v1), FCM/GCM(then Google C2DM) etc from ground up.
- Developed 3 inbuilt system apps and the launcher app that executes Linux shell commands for Polaroid Kids Tablet.

Professional Projects

iBridge
Android+NDK+Socket Comm+IPC+Digest Auth+Realm for Android+Google Vision api

- NAPCO's state-of-the-art security/access control app for intrusion detection, fire alarms, IoT available in Wireless(local & remote) and panel-wired tablet versions.
- Smart Z-Wave™ device automation of indoor and outdoor lights, dimmers, thermostats, locks with scene creation, triggered events & scheds.
- Integrated top branded panel's keypad like ADT®/Honeywell®, DSC®.

iLock
Android+Bluetooth LE

- NAPCO's smartphone Bluetooth LE solution for unlocking(/locking for Canadian market) proprietary Trilogy®Networx™ ArchiTech™ Series Designer Access Control Locks from any smart device without the need to carry cumbersome ID cards or keys.

Virtual Keypad & StarLink
Android+OkHttp+Socket Comm+IPC

- **Virtual Keypad -** Conventional keypad screen and keypad-programming for renowned security keypad manufacturer e.g. ADT®/Honeywell®, DSC®.
- **StarLink -** Universal intrusion alarm reporting mobile solution with Arming/Disarming capabilities on panels.

StarLink *Android+Socket Comm+IPC*

- App with conventional keypad screen and keypad-programming for renowned security keypad manufacturer e.g. ADT®/Honeywell®, DSC®.

Education

AUST(Ahsanullah University of Science and Technology) *Dhaka, Bangladesh*

B.S. in Computer Science and Engineering *Apr. 2007 - Sep. 2011*

- Completed graduation with CGPA 2.97 from CSE Dept.

Presentation

DevFest Seoul by Google Developer Group Korea *Seoul, S.Korea*

Presenter for <Hosting Web Application for Free utilizing GitHub, Netlify and CloudFlare> *Nov. 2017*

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference) *Seoul, S.Korea*

Presenter for <DEFCON 20th : The way to go to Las Vegas> *Jul. 2012*

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

Writing

A Guide for Developers in Start-up *Facebook Page*

Founder & Writer *Jan. 2015 - PRESENT*

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

Extracurricular Activity

PoApper (Developers' Network of POSTECH) *Pohang, S.Korea*

Core Member & President at 2013 *Jun. 2010 - Jun. 2017*

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH) *Pohang, S.Korea*

Member *Sep. 2010 - Oct. 2011*

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.