Ishtiaq **Mahmood Amin**

ANDROID DEVELOPER · SOFTWARE ENGINEER

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

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, team-worker 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.

Skills

Development

- **Language -** Java , C , Javascript(ES6) , Groovy , C++ , Kotlin. *(efficiency from left to right)*
- **Environment, Pattern & Methodology -** Android Studio / IntelliJ IDEA , Firebase , TCP/IP Communication , BLE , Agile-Scrum , MVVM(Android) , MVC(Java) , TDD , ADB+Fastboot , Android Profiler , Layout Inspector , Vector graphics , Gradle build scripting , SQL Server/Oracle 11g + JDBC , REST , SQLite , Code::Blocks , NetBeans , Eclipse , Maven , Cygwin , arm Keil's µVision , Vim , nano.
- **Version Control -** Git+Terminal , GitHub , GitLab , Team Foundation Server.
- **Libraries -** Android Support Libraries , Realm for android , Retrofit , OkHttp , ButterKnife , RxJava , Room , Glide , Universal Image Loader , prebuilt static or shared .so/.a libraries.
- **Cross-platform -** React Native , state management with Redux /React-Redux utiliziing Redux-Saga, Metro , npm.
- **Operating System -** Any workable environment ranging from macOS , Windows to vanilla Arch / Debian or their stable distros.

Personal

- Keen attention to detail and a very good listener. Develop, while keeping design patterns in mind.
- Proactive problem solver with craving to make app robust, scalable, modular and testable. Team-worker, inquisitive, communicable, dedicated to continuously developing, implementing, and adopting new technologies.

Enthusiastic

- PuTTY , Shell scripting in Bash , zsh. completed beginner level Python2.7 on Codeacademy , Decompiling jars and apk.
- Tweaking android device's internals; unlocking bootloader , flashing kernels , optimizing performance.

Work Experience

Adaptive Enterprise Limited
Dhaka, Bangladesh

SENIOR SOFTWARE ENGINEER
Dec. 2014 - Present

- Developed, supervised and currently maintaining more than 7 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 Low Energy, IPC, 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, SVG.
- 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.
- Visited NAPCO and worked with their Firmware and Backend developers to accelerate/stabilize development of running projects.

Cloudwell Limited
Dhaka, Bangladesh

SOFTWARE ENGINEER
Aug. 2013 - Dec. 2014

- Developed 5 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 and by building an app that acts as a 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 (v2) , FCM/GCM(then Google C2DM) etc from ground up.
- Developed 4 inbuilt system apps and the launcher app that executes Linux shell commands for Polaroid Kids Tablet.

Projects

iBridge   *Android +NDK +Socket +AIDL +Digest Auth +Streaming H.264 +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 IBR-TOUCH 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 Alarm Lock division's smartphone Bluetooth LE solution for unlocking(/locking for Canadian market) proprietary Trilogy®Networx™ ArchiTech™ Series Designer Access Control Locks from android device without the need to carry cumbersome ID cards or keys.

Virtual Keypad & StarLink   *Android +OkHttp +Socket +AIDL*

- **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.

Polaroid Kids Tablet 2   *Android with custom UI controllers +Media api*

- **Kids Vids -** Proprietary app with age control that streams kids friendly videos from YouTube.
- **Kids Start -** The Launcher app of the tablet with a feature of restricting apps.
- **Kids Cam -** Proprietary app for taking picture and shooting video with built-in fun filters.
- **Music Player -** Audio player app with custom visualizer.
- **DJ Studio -** A little DJ app for kids with fun sounds and beats.
- Best design and innovation award winner of CES2013. Featured in Engadget, USA TODAY, Digital Trends.

Paywell Services   *Android+Glide*

- Designed for retailers or store owners that want to sell mobile airtime and various utility bills of Bangladesh.
- In-house Distributor, Dealer, Collector, Territory Officer apps satisfying significant aspects of Paywell's bussiness model.

Android Development   *Google Maps api +Firebase +Instagram api +OkHttp +Media Api +Realm for Android +MPAndroidChart*

- **OneOrchard -** OneOrchard brings you a whole different online experience as you use the app along Orchard Road, Singapore.
- **Beer Price -** Get updated prices, selections, locations and rating from over 3,000 bars in Scandinavia. Both price and selection can easily be updated thorugh the in-app report function.
- **Singapore Chinese Orchestra (SCO) -** Official app for Singapore's only professional Chinese orchestra.
- **My Collection -** Develop for the people who has great passions on regarding there collected Coin, Stamps and Sports Cards.
- **MyiSeeVideo -** iSeeVideo app for Napco's video services for ISEE series cameras.
- **CSE (In-house) -** Chittagong Stock Exchange analysis app with animated Line chart and Bar chart.
- **Akij BR (In-house) -** App for sales officers of country's giant Akij Group , to daily market survey and report/generate pdf their fulfilled target to a central server.

React Native Development   *Flexbox +Redux +Redux-Saga +RNFirebase*

- **DoerPay -** Currently under development, aggregated payment solution app.
- **iLock -** Currently under development, NAPCO's Bluetooth LE solution app in React Native.

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 on a scale of 4.00 from CSE Dept.

Hobbies & Activities

An audiophile, surfing web looking for high fidelity, binaural audio. A poweruser, football fanatic, traveler, bicycler, Rubik's Cuber and avid art-enthusiast e.g. photography, photopainting, calligraphy, abstract, low poly.

A regular blood donar.