



# 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 stellar 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 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 reputed 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®Network™ 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.

## Android Development

*Google Maps api +Instagram api +OkHttp +Media Api +Realm for Android +MJPEG +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 through 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.
- **Paywell Distributor, Dealer, Collector, Mobile airtime, Territory Officer (In-house)** - 5 apps satisfying significant aspects of Paywell's business model, distributor-to-dealer-to-retailer, mobile territory manager.
- **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*

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

# Skills

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## Development

- **Language** - Java, C, Javascript(ES6), Groovy, C++, Kotlin. *(efficiency from left to right)*
- **Environment & IDE** - Android Studio/IntelliJ, Firebase, TCP/IP Communication, CodeBlocks, NetBeans, BLE, Gradle build scripting, Eclipse, Maven, Cygwin, arm Keil's uVision, Vim, nano.
- **Version Control** - Git.
- **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 utilizing Redux-Saga on VSCode. NodeJS, npm.
- **Operating System** - Any workable environment ranging from Windows, macOS 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 an urge to follow best practices.

## Enthusiastic

- PuTTY, Shell scripting, Bash, zsh. Beginner level Python2.7, Decompiling jars and apk. LaTeX,
- Tweaking android device's internals from unlocking bootloader, flashing kernels, optimizing performance.

# Education

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## 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

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An audiophile, surfing web looking for high fidelity, binaural audio of vintage/stimulating masterpieces. A poweruser, football fanatic, traveler, loving husband, Rubik's Cuber and avid art-enthusiast. Regular blood donar.