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 Senior Software Engineer & DevOps in Archibo IT Consultancy & Services. Analytical, highly agile 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, Automation, 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 , MVVM(Android) , MVC(Java) , TDD , ADB+Fastboot , Android Profiler , Layout Inspector , Gradle build scripting , SQL Server/Oracle 11g + JDBC , REST , SQLite , Code::Blocks , NetBeans , Eclipse , Maven , Cygwin , arm Keil's µVision , Vim , nano , SSH.
- **Version Control & DevOps-** Git+Terminal , GitHub , GitLab , Team Foundation Server , GitLab-CI/CD , Azure DevOps , TeamCity , Sonarqube.
- **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.
- **Security -** Quite able & experienced with setting up fresh debian based servers with priviledged sudoers through SSH and hardened with rkhunter , fail2ban.

Certification & Meta-skills

- Certified Professional Scrum Master-1 , Management 3.0: Certificate of Participation , Introduction to Flutter Development Using Dart , UI UX Design & Prototyping using Adobe XD - 2020 Essentials.
- Business Analysis Certification Program - The Tools.
- 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.

Work Experience

Archibo IT Consultancy & Services
Langen, Germany

SENIOR SOFTWARE ENGINEER & DEVOPS
Dec. 2019 - Present

- Working both as a programmer of in-house product Agilibo & a technical consultant . Designing, developing & maintaining existing mobile app(Android/iOS) . Designing, deciding products that leverage agile transformation, from ideation to SaaS.
- Implementing/maintaining on demand technical environment setups i.e. CI/CD, securing servers, creation of development environments, clients technical needs. Also, any sorts of UI/UX Engineering.
- Architecting, devising and guiding the automation framework with QA/Tester co-workers.
- Facilitating, practicing & learning with the co-workers about the right mind-set of a robust, productive, cross-functional team.

Adaptive Enterprise Limited
Dhaka, Bangladesh

SENIOR SOFTWARE ENGINEER
Dec. 2014 - Dec. 2019

- Developed, supervised and maintained 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

Agilibo
Android+iOS+UI/UX

- Archibo's ambitious approach to make a platform that provides all the essential tools in the world of Agile development and Management 3.0.

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 -** Aggregated payment solution app.
- **iLock -** NAPCO's Bluetooth LE solution app in React Native.
- **UMI® -** UMR Holdings approach to re-inventing the digital healthcare.

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 2.912 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.