

Vignesh P

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Professional Summary

Having 3 plus years of industry experience in Android application development.

- Having good knowledge and practice in data structures and algorithms.
- Having good problem solving skills and ability to identify and solve coding bugs.
- Having good experience in developing tools and API for developers.
- Having strong understanding in Android application development.
- Having good experience in working with SQL and NoSQL databases.
- Good ability to convert research code to optimized processing code.
- Having good ability to develop novel solutions using a combination of technologies based on engineering requirements.
- Having good experience in working with JSON and XML data formats.
- Having good experience in developing and consuming SOAP and REST web services.

Professional Experience

Working as a Senior Software Engineer for MTap technologies (founded by iOPEX), Bangalore from December 2011 to till date.

Technical Skills

- Programming Languages : Java, Python.
- Database : Android Sqlite, Mysql, Mongo, IBM Notes.
- IDE: Android studio (Intellij).
- Operating System: Linux ubuntu.
- Build Tool: Maven, Gradle.
- SCM: Git, SVN.

BEST HACKS

- Contributed to Butter knife project a View injection android library project.
- Contributed to Robolectric gradle plugin an Android Unit testing framework build script.
- Solved bulk image downloading problem in Android application caused by list or grid view of images by pairing the image view to custom drawable with bitmap downloader task that can download image from web service and store them locally with LRU file system cache.
- Developed an application similar to google play store beta testing, self hostable APK publisher with APK subscribing option, including eclipse plugin for the developers to update the APK.
- Implemented OAuth 2.0 pattern authentication for REST API calls.
- Made a simulation of moving targets for faking moving targets on google maps.

Education

Amalraj Matric Higher Secondary School Thanjavur, Tamilnadu S.S.L.C. (Matric), GPA: 73%	2004 - 2005
Ideal Higher Secondary School Erode, Tamilnadu H.S.L.C., GPA: 83%	2006 - 2007
Shri Angalamman College Of Engineering and Technology Trichy, Tamilnadu B.Tech in Information Technology, GPA: 65%	2007 - 2011

OPEN SOURCE CONTRIBUTION

BUTTER KNIFE	May - 2014
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DESCRIPTION:

A View injection library for Android which uses annotation processing to generate boilerplate code.

GIT PROJECT URL: <https://github.com/vignesh-iope/butterknife>

DETAILS:

- Added resource injection module to the annotation processor that generates class Injector files on compile to dynamically inject the resources to the annotated fields.
- Modified annotation processor to support and inject resource annotated fields by generating boilerplate code.
- Wrote JUnit test to the resource injection module.

PROJECT SUMMARY

Safetrax	DEC-2013 to till date
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Role	: Android Application Developer
Platform	: Android
SDK Version support	: 9 to 21
Team Size	: 4

DESCRIPTION:

An android application that tracks user location during their commute to work, uses bluetooth pairing events to identify boarding and reached destination using the cab. Includes driver and passenger app to push all trip events to raptor.

TASKS AND RESPONSIBILITIES:

- Establishing constant efficient location communication between a group of user with their activity state on location change event and plotting them on Google Map.
- Adding LRU cache feature that would remove least recently used data from Sqlite and Android file system.
- Using Google places and directions API and to cache the API calls inside a self hosted geo query based environment that would minimize the cost Google API limits.
- Using geo fencing and bluetooth device pairing option to determine the state and location of the device on a trip
- Overriding the default date class to generate the server synchronized date which will calculate an offset to generate the server time by making minimum hits on server.
- Used SyncAdapter with ContentProvider backed up with Sqlite to store and retrieve data by using URI calls and URI content observers.
- Upgraded application UI to Material design.
- Migrated Eclipse ADT project to use Gradle build tool.
- Used Robolectric shadow classes for unit testing.
- Maintaining code quality and testability using dependency injection pattern.

APK SUBSCRIBER

MAY-2013 to Jun-2013

Role	: JAVA Developer
Platform	: Android, REST services, Eclipse plugin
SDK Version support	: 8 to 19
Team Size	: 2

DESCRIPTION:

Similar to the Google play store beta testing, created a tool to do the same in a self hosted environment. Each Android application project will be paired with a REST URL that holds the updated APK of the project which will be replaced by the developers on the new release of the application. This upload of new APK on the server will trigger a push notification to all the subscriber to update their APK.

TASKS AND RESPONSIBILITIES:

- To create an Eclipse plugin that allows the android application developer to upload the apk of the project to the configured URL.
- To create an Android application that allows the user to subscribe to the apk updates.
- Tracking revision history of APK changes.

Role	: Android Application Developer
Platform	: Android
SDK Version support	: 9 to 21
Team Size	: 4

DESCRIPTION:

Confidential and project research is ongoing.

TASKS AND RESPONSIBILITIES:

- Implemented Content provider and sync Adapter module that can sync data based on manual/timely/ondemand (GCM)
- Code review to maintain dependency injection pattern and design principles for unit testability.
- Migrating UI and UX to material design standards.
- Created Confirm Dialog UI library to replace android default alert dialog box builder to use custom slide animation <https://github.com/vignesh-iopeX/confirmdialog>
- Created a library which is a wrapper around google play location services, that can dynamically take a pending intent for location update event makes use of parcelable concept to use dynamic code injection.
- Creating custom views and drawables to replace android default Toast & progress animation.