**Satyanarayana Magam**

**Sr. Android Developer**

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**PROFESSIONAL SUMMARY:**

* 9+ years of dedicated experience in Android Application Analysis, Design, Development, Integration, Deployment and Maintenance/Support for Standalone, and Client-Server based Android Applications.
* Experience working with the latest Android version 10, Version 9.0 (Pie), 8.0 (Oreo), and 7.0 (Nougat).
* Developed and architected multiple Android applications across different Android versions.
* Good understanding of scaling Android UI across multiple Android devices.
* Experience in Activities, Fragments, Services, Broadcast Receivers, Content Providers, Web Services, JSON, XML, ADT plug-in, SQLite database, DDMS, GPS, Location, Notifications, Alarms, and Maps.
* Experience in implementing push notification functionality using Google Cloud Messaging (GCM).
* Extensively used Java Collections APIs & Multi-threading.
* Experience with Android Jetpack that includes Android architecture components like LiveData, ViewModel etc.
* Good Knowledge of Material Design including: Recycler View, Card View, Navigation Drawer, Toolbar, etc.
* Implemented Continuous Integration and deployment using Continuous Integration Tools like Jenkins.
* Good knowledge working with front-end technologies HTML/ HTML 5, CSS, and JavaScript.
* Manage weekly sprints as a senior developer in an agile environment using ADO.
* Experience with RESTful APIs to connect Android applications to backend services.
* Good Experience with third-party libraries including Retrofit, RXjava, Dagger, Butter Knife, Volley, GSON, OkHttp, Event Bus.
* Worked with various code versioning tools including Git, SVN etc.
* Experience in implementing applications using design patterns including MVC, MVVM and Singleton.
* Experience with full life cycle of Android Application Development, which includes testing on device and simulator as well, and writing JUnit test cases.
* Excellent Android application debugging skills.
* Excellent analytical, problem solving, technical and communication skills.

**EDUCATION**

* Bachelor of Computer Science (2007) from Sri Krishnadevaraya University, Anantapur, India
* Master of Computer Applications (2010) from Osmania University, Hyderabad, India

**AWARDS & ACHIEVEMENTS**

* GEM Ward – Light of Creativity Project
* Appreciations Mails from Client – Light Project
* PIRL Award – M&T Mobile Banking Project

**TECHNICAL SKILLS:**

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| **Android framework and tools** | Android SDK, Android Studio, Android Jetpack, LiveData, DDMS, ADB, Junit, Logcat |
| **Programming languages** | Kotlin, Java, |
| **Front End Technologies** | HTML/ HTML 5, CSS, JavaScript |
| **Operating Systems** | Windows 7, 10, Mac OSANARA |
| **Source control** | Git, SourceTree, Jenkins and Android build tools such as Gradle |
| **Design Pattern** | MVC, MVVM and Singleton |
| **Third party Libraries** | Retrofit, Butter Knife, Volley, Event Bus, GSON, OkHttp, Espresso, Mockito |
| **Model** | Agile, Waterfall. |
| **Project Tool** | ADO, HP ALM (Application Lifecycle Management) |

**WORK EXPERIENCE:**

**M&T Mobile Banking NextGen Buffalo, New York Jan 2016- Present**

**Senior Android Developer**

As a Senior Android developer in this project, I have worked on different modules of the app which is developed and architected from scratch. By using this application customers can check balances of his/her retail and business accounts, and also customers can transfer. Bill pays and checks deposits from accounts. Customers can also change and reset passwords. This application is also helpful for finding branches and ATMs.

**Responsibilities:**

* Working as Senior Android Developer and responsible for Design and Development of Adding new functionalities.
* Migrated some modules to Kotlin from Java.
* Used Data Structure, Multithreading, Collection and Exception handling.
* Wrote code using Kotlin with Android content providers and code to send Emails, SMS from the app.
* Wrote SERVICES, ASYNC tasks and Alert Notification API to implement event reminder feature into the mobile app.
* Created REST and SOAP web services and integrated, also Worked on OData RESTful API, also processed JSON responses.
* Refactored the legacy code with Dagger dependency injection library to create reusable, testable interchangeable modules.
* Used LINT and Proguard for better performance of the application.
* Worked on implementing the network layer and implementing the architecture.
* Involved in development of Account Summary, BillPay, Transfers, Mobile Check Deposit, Zelle Pay and Alerts Modules.
* Performance tuning, improvement, balancing, usability, automation.
* Performance improved and reduced the latency by solving compatibility issues using Android Developer tools.
* Wrote code for sorting based on locations latitude and longitude to search Buses
* Used components like Cardview, Recyclerview, Navigation Drawer, Floating button for smooth navigation and better user experience.
* Integrated Volley library to pull data and displayed data on the recyclerview using different tab fragments.
* Support, maintain and document software functionality
* JUnit, Mockito, Espresso Framework for UI testing and written mock test cases.
* Used Retrofit, volley, RxJava and Dagger.
* Deployment of the app to the Google Playstore using jenkins.
* Code Maintenance in ADO repository using Git.

**Environment:** Android Studio, Java, Kotlin, data binding, MVVM design pattern, Android Jetpack, Android architecture components, LiveData,Google Pay API,Agile methodology, ADO, Git, Junit, Android Accessibility.

**Play store URL**: https://play.google.com/store/apps/details?id=com.mtb.mbanking.sc.retail.prod&hl=en

**ANZ Buffalo, New York June 2015 - Sep 2015**

**Senior Android Developer**

ANZ Digital mobile banking app, using this customer gets on board. Customers allow filling the basic banking required details and uploading the required documents. Once the customer completes the on-boarding process, it gets assigned to the Relationship manager. RM can see a list of customer requests, details and uploaded documents. Using this, verification process has been done by RM through the App.

**Responsibilities:**

* Developed Contacts, Drive and Gallery modules of the application.
* Developed application and followed Agile Software development methodology.
* Used SQLite to store inventory records, which allowed for offline search capabilities.
* Responsible for designing the architecture of this application which is used in android platform.
* Implemented Payment gateway.
* Tested the app across different versions of Android and different android phones to assure quality and performance.
* Implemented customized web view component to load an SWF file and HTML data.
* Implemented the required GUI by making modifications to the XML files.
* Used Multi-threading to implement parallel processing.
* Implemented client-side RESTful call to receive JSON based response and parsed using GSON.
* Enabled the application to use the Camera feature to scan a document and upload the check using SQLite.
* Used SQLite DB to maintain history.
* Refactored the legacy code with Dagger dependency injection library to create reusable, testable interchangeable modules.
* Utilized a retention fragment technique to avoid losing the AsyncTask.
* Used Retrofit and RxJava to replace existing out of date HTTPClient, working with JSONArray and JSON Objects.
* Developed Home Screen Widgets to show the users, details about their order shipping and delivery details.
* We also used the video platform to show videos, images in application.
* Used Butterknife and Dagger 2 for views injection and loose coupling.
* Implemented efficient way of showing graph data in customized tooltips or marker views and interactions with charts by highlighting the value selected by the user in the graphs.

**Environment:** Android Studio, Android OS,Activities, Fragments, Memory Management, Content providers, SQLite, Core Java, Scrum, Git.

**Light of Creativity Buffalo, New York Sep 2014 - May 2015**

**Android Developer**

Light Notebook is a Cloud application to securely capture / organize / share moments of life, Create / Organize contacts, Converse / Organize / Share conversations, Upload / Store / Share documents, collate moments, contacts, conversations, documents and share as a single capsule.

**Responsibilities:**

* Developed Contacts, Drive and Gallery modules of the application.
* Thorough understanding of business and business requirements.
* Design & Develop the functionality as per the requirement.
* Independent Unit Testing and Functionality Testing
* Code Maintenance in Subversion.

**Environment:** Eclipse, SVN, Activities, Fragments, Core Java, Junit, DDMS, Android Debug Bridge.

**Polaris Security Buffalo, NY May 2014 - Aug 2014**

**Android Developer**

This is an **Encryption** framework which deals with encryption of its type support text, file and database using different keys. These keys are generated using Android NDK 'C' Library. This framework is developed to reuse in different products.

**Responsibilities:**

* Worked in developing and implementation of File, Text and Database Encryptions.
* Development using Struts, Spring, hibernate frameworks and implemented Web browser testing (WebTop testing using Opera, IE, and Firefox) and Multimedia Testing (2D and 3D Graphics, Audio, Video).
* Performed data validation in Form beans and Action Classes.
* Worked on XML, XSLT, XPATH, DOM and SAX.
* Used RAD for developing the application.
* Prepared Unit Test Plan and performed Unit Testing using JUnit.
* Used Log4j for logging debug, info and error data.
* Analysed the requirements and understood the functional specifications.
* Involved in design of the system using UML
* Worked on designing and developing scalable and extensive frameworks.
* Worked on Agile, RAD and Test-Driven Development (TDD) environment.
* Implemented front end (GUI) using HTML, JSP, AJAX, CSS and JavaScript.
* Design and development of modules using MVC.
* Development of various modules in accordance with Agile Methodology framework. Collaborating along with the Business Analysis, Design, QA and Development team in shaping the product.
* Worked on core framework of the Android and Web Application Design and its communication (Web Services, Database, Connectivity’s, UI).
* Extensively utilized Async Task, Thread handler, Services to provide smooth UI experience.
* Involved in designing the Web Services and Database design to suit the Android Application Support.
* Development of key functionalities like on middleware side, Database design, Android framework for multiple device support.
* Used multi-threading to implement parallel processing using Async Task, Services, Job-Scheduler, Thread Pool Executor.
* Involved in Application testing, Memory Analysis, Screen fragmentation support and working with the QA team on test plan and test cases.
* Involved in designing the interface along with the design and UX team for better usability and handling across Android and maintaining their relative nativity (phones and tablets).

**Environment:** Eclipse, Android NDK, Activities, RSA, Cipher, SQLite Core Java, Junit, DDMS, Android Debug Bridge.

**Liberty Videocon General Insurance Mumbai, India Dec 2013 - May 2014**

**Android Developer**

LVGI (Liberty Videocon General Insurance) is one of the international leading vehicle insurance companies. This Application developed for 10-inch android tablets, it is developed for the client demo, it has PDF generation as well as encrypted data store using SQLite with agent’s filled info for vehicle details like customer name, address, email, phone#, vehicle details, damage description, signature captured, and current location. And it also has features like file attachment from either taking a snapshot of the vehicle using camera (or) from SD card. This application has validations for each field according to business requirement.

**Responsibilities:**

* Used Android SDK and Eclipse IDE for development.
* Used Location APIs for Search.
* Gathered client requirements and involved in design and developing hybrid application UI.
* Worked on Detail level UI design documents for android and worked on building the required product suites.
* Designed the User Interface with Tabs for multiple views, custom list views and expandable list views.
* Perform CLI.
* Used SVN for version control of the source code/modules.
* Worked on bug fixing and troubleshooting the production issues and tracking using Mantis tool.
* Performed Unit and integration testing.
* Involved in developer testing by porting the app on multiple devices with various screen resolutions.
* Used Material design using Card View, Recyclerview and classic principles of good design with innovation.
* Integrated REST web services, JSON in the app.
* Implemented favourite’s options to save the refined search data.
* Worked on local data storage using SQLite.
* Documented app feature upgrades for use in promotional material.
* Created Release notes and Change requests for UAT and production deployments.
* Worked on deploying the application in development, QA and testing environments.

**Environment:** Eclipse, SVN, Activities, Fragments, Core Java, Junit, DDMS, Android Debug Bridge.

**DHL Chennai, India May 2013 – Nov 2013**

**Android Developer**

The DHL Quote App is developed especially for 10-inch android tablets, it is developed for the client, it has PDF generation as well as encrypted data store using SQLite with agents filled info for courier shipment like customer name, address, email, phone#, shipping from, shipping to, weight/kg, signature captured, current location. And it also has features like file attachment to the shipment info from either taking a snapshot of a ship item using camera (or) from SD card. It will generate non-repeatable unique quote numbers for each shipping info and the generated PDF will save with this quote number. This application has validations for each field according to business requirement.

**Responsibilities:**

* Worked in developing PDF generation, Signature Capture modules.
* Perform Functional Requirement Analysis
* Thorough understanding of business and business requirements.
* Unit Testing and Functionality Testing

**Environment:** Eclipse, SVN, Activities, Fragments, Core Java, Junit, DDMS, Android Debug Bridge.

**EarthLink Chennai, India Nov 2012 – May 2013**

**Android Developer**

EarthLink Project is a mobile solution specially crafted for Field Technicians that are working on different fields. Virtually, all task-related communications and instructions fit easily in their pockets on one single device. Extensive Connectivity, coverage offerings for these devices, allows the field technicians to stay tightly- connected with the customer service and the administrator for important updates, thus enabling them to serve the customers efficiently. Data Used for this application will be obtained by consuming SOAP (response format is Soap array) Web services, and the same data will be stored in a database using Android’s SQLite.

**Responsibilities:**

* Implemented an MVC architecture-based design for Field Locate android application.
* Implemented flexible application layout using fragments.
* Used AsyncTasks hosted in Fragments to handle network call and device rotation.
* Used SQLite database to generate local caching of price book for faster access.
* Wrote code to interact with the RESTful service server.
* Implemented Java POJO classes.
* Used adb, logcat, DDMS for Debugging.
* Used Location and Google Maps API.
* Configured a Service to create notifications to remind the user that he is clocked in.
* Implemented push notifications in application.
* Debugged code to fix defects in the application.
* Used JIRA to manage issues for a better control.
* Prepared root cause analysis report for defects fixed.
* Responsible for updated application submission on Google Play store.

**Environment:** Eclipse, SOAP Web Services, SQLite, Core Java, Collection framework, Android OS, Fragments, Adb, logcat, DDMS, Location API, JIRA, KSoap Library

**SingTel Chennai, India Jul 2012 – Nov 2012**

**Android Developer**

**SingTel** is a Singaporean telecommunications company; this application is developed for the field employees of SingTel, by using this application the employee will receive their work he will update the status of work, admin will assign the job to each app user based on the type of skills. Data Used for this application will be obtained by consuming SOAP (response format is Soap array) Web services, and the same data will be stored in a database using Android’s SQLite.

**Responsibilities:**

* Implemented an MVC architecture-based design for Field Locate android application.
* Implemented flexible application layout using fragments.
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* Used Location and Google Maps API.
* Configured a Service to create notifications to remind the user that he is clocked in.
* Implemented push notifications in application.
* Implemented location-based tracking of technicians using Android Location API and Maps.
* Debugged code to fix defects in the application.
* Used JIRA to manage issues for a better control.
* Prepared root cause analysis report for defects fixed.
* Responsible for updated application submission on Google Play store.

**Environment:** Eclipse, SOAP Web Services, SVN, SQLite, Core Java, Collection framework, Android OS, Fragments, Adb, logcat, DDMS, Location API, JIRA, KSoap Library

**EiKard Chennai, India Mar 2011 – Jun 2012**

**Android Developer**

Eikard application provides a digital platform with a set of tools and an innovative mechanism to exchange extended contact information of individuals, businesses and corporate professionals. Using state of the art mobile smart phone apps, a QR sticker pack for businesses and a user-friendly web portal, we enable our users to participate in the mobile revolution. We invented the concept of the PROFILER, which is always up to date, easy to share, and fits into the technology driven eco system of today's IT landscape. It's free for the personal user; it is trendy and utilizes the existing medium of your 'smartphone'. Data Used for this application will be obtained by consuming SOAP (response format is XML) Web services, and the same data will be stored in a database using Android’s inbuilt SQLite.

**Responsibilities:**

* Used AsyncTasks hosted in Fragments to handle network call and device rotation.
* Used SQLite database to generate local caching of price book for faster access.
* Wrote code to interact with the RESTful service server.
* Implemented Java POJO classes.
* Used adb, logcat, DDMS for Debugging.
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