**Rithika**

**Senior Android Developer**

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**PROFESSIONAL SUMMARY:**

* 8+ years of strong experience in Design, Development, Testing and Deployment of native Android Applications for Phones, and Tablets.
* Solid understanding of the full mobile development life cycle with a hands-on expertise with a wide variety of Android device resolutions (screen sizes) and SDK versions.
* 8+years knowledge in Native mobile app development.
* Designed and implemented GraphQL queries and mutations based on application requirements.
* Experienced in Native Android development, knowing cross platform frameworks .
* Worked closely with backend developers to define GraphQL schemas and ensure effective data fetching strategies.
* Experienced in RabbitMQ which supports various messaging protocols, including AMQP (Advanced Message Queuing Protocol), MQTT (Message Queuing Telemetry Transport), and STOMP (Simple Text Oriented Messaging Protocol).
* Experienced working within fast paced environments using Agile (Iterative development), Scrum, and Kanban development practices.
* Experienced with dependency injections (DI) and use of DI tools such as Hilt.
* Experience with implementing design patterns, use cases, and framework technologies and layering the structure into Presentation, Domain, Data for building a clean solution architecture which is testable and UI, framework independent.
* Integrating and configuring CI/CD tools such as Jenkins, GitLab CI/CD, CircleCI, or Azure DevOps for Android projects.
* used RabbitMQ to manage and distribute background tasks across multiple devices or instances of an application.
* Integrated GraphQL APIs into Android applications for efficient data querying and mutation.
* Utilized Flutter’s widget system to create and manage the UI components effectively.
* Experienced in Writing Espresso test scripts to automate UI interactions and validate app behavior.
* Identify and document UI test cases that need to be automated using Espresso.
* Designing, implementing, and maintaining CI/CD pipelines specifically tailored for Android applications.
* Mentoring Software Engineers, holistic vision of organization and impact.
* Experienced in Mentoring Software Engineers to allow for skill/knowledge development through advice, coaching, and training opportunities.
* Experience with and passion for Unit Testing and Code Coverage tools (Junit, Jacoco + Sonar).
* Extensively worked on every stage of application development right from collecting requirements, providing guidelines for design, creating application architecture, implementation that includes various stages in development, QA, code signing and releasing to Market.
* Experienced in promoting robust and maintainable code, clear documentation, and delivering high quality work on a tight schedule.
* Used Google Play Developer API to integrate continuous integration and continuous deployment (CI/CD) workflows.
* Experienced building native Android apps in Java / Kotlin
* Shipped more Android applications which are available in the Google Play Store.
* Played Extremely Significant Role in delivery of complex projects and was Technical lead for team.
* Experienced in problem solving, critical thinking and communication skills.
* Experienced in JavaScript/React Native.
* Experienced in Server-side development experience building restful APIs in frameworks like node.js.
* Writing UI tests using Espresso and used AndroidJUnitRunner to run tests.
* Experienced in Security and encryption principles (e.g., biometrics, RSA, SqlCypher, SecureAuth or Ping).
* Focus on continuous improvement and ongoing product health for the Android platform.
* Experience in working with Java, SQLite Database, Eclipse IDE, Android Studio, and Androids: Debugger (DDMS), Device Manager (AVD), ADT plug in.
* Expertise in computer science fundamentals - data structures, algorithms, multithreaded programming and networking concepts. Experience with audio features, video features, graphics design, interactive design and animation.
* Proficient with common Android framework APIs like (Activities, Intents, Services, Broadcast, Content Providers, Authentication, Location, Camera, Scanner, Notifications, Maps).
* Knowledge in working with audio and video codec’s like .3GPP, MPEG-4
* Knowledge in designing and developing adaptive UI components, widgets for Android phones, tablets using Notifications, Adapters, Content Provider, Services, XML Parsing, SQLite.
* Experience in building multithreaded applications using Threads, Handlers and Asynctask.
* Hands on experience using Location based services and Google Maps API in Android app development.
* Extensively worked on memory leaks, push notifications, multiple screen support, data offline usage, accounts and sync on Android.
* Experienced in Security and encryption principles (e.g., biometrics, RSA, SqlCypher, SecureAuth or Ping) .
* Practical implementation of Android Activity Life Cycle.
* Got fluent in constructing different types of layouts like linear, relative and constraint.
* Implemented unique design for portrait and landscape mode.
* Strong experience with Android Framework APIs such as Location Manager, Notification Manager, and Content Providers.
* Experienced with front-end technologies HTML/CSS, JavaScript.
* Experienced with RESTful web services.
* Experience with source code control management like subversion GIT and BitBucket.
* Good understanding in third-party libraries and techniques such as Dagger, RxJava, Retrofit.
* Experience working with MVC (Model View Controller) and MVP (Model view Presenter), MVVM (Model view view model) frameworks
* Experience in using Gradle.
* Experience with embedded real time systems with limited resources (memory and processing)
* Heavy experience with Android software development
* Worked on design patterns, MVC, data structures and algorithms.
* Performed unit and integration testing Android code.
* Published Android application is required.
* Understanding of testing tool selenium and unit test and integration test scripting, and testing methodologies.
* Experienced with Google Play APIs : Maps, Location, and Cloud Messaging
* Experienced with software debugging techniques (debuggers, loggers, crash report tools)
* Experienced with analysis of memory issues such as memory leaks using memory analyzers tools (DDMS, MAT).
* Experienced with development of mobile network clients using HTTP protocol, REST APIs and Google Cloud Messaging.
* Experienced with software debugging techniques (debuggers, loggers, crash report tools)
* Experience with analysis of memory issues such as memory leaks using memory analyzers tools (DDMS, MAT)

**Technical Skills:**

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| **Languages** | Java 8, Kotlin, Java, HTML5, CSS3, XHTML and XML, JSON |
| **Debugging and Testing** | Android Profiler, DDMS, Logcat |
| **Android App Mobile Development** | Android SDK, Recycler View, AndroidX, Jetpack Compose, Coroutines, Flow, Work Manager, List view, SQLite, Room, Dagger, Hilt, JNI, Notification Manager, Contacts, Content Provider, Services, DDMS, Android Profiler, Location, Map, Android NDK, BLE, HTTP Client, GSON, JSON-based Web Services, Camera API, GraphQL, Facebook API, Google API, Firebase |
| **Web Services & Parsing Techniques** | SOAP, REST, gRPC, GraphQL, JSON, GSON, DOM, SAX, Volley, OkHttp and Retrofit. |
| **Version Controls** | Git, Subversion, CVS. |
| **IDE** | Android Studio, IntelliJ, Eclipse, Android Studio,Eclipse, Android SDK, Android NDK, Maven, Visual Studio, IntelliJ IDEA |
| **Build and Test Tools** | Ant, Maven, Junit |
| **Databases** | Oracle, My-SQL, SQL, SQLite, Oracle, MySQL, Snowflake, MongoDB. |
| **Operating Systems** | Windows XP/Vista/7, UNIX, MacOS |

**PROFESSIONAL EXPERIENCE:**

**Client: Broadridge, Lake Success, NY Oct-2022-Present**

**Role: Senior Android Developer**

**Project Description**: Broad ridge app offers advisor marketing and practice management solutions that improve productivity, increase ROI and support business development strategies.

We deliver technology-driven solutions that drive digital transformation for our clients and help them get ahead of today’s challenges to capitalize on what’s next.

**Link to Play store**: https://www.broadridge.com/ca/financial-services/wealth-management/independent- advisor/build-your-practice/mobile-app

**Responsibilities:**

* Involved in doing Agile practices, attending daily Agile (SCRUM) meetings and SPRINT retrospective meetings. Worked with an Agile, Scrum methodology to ensure delivery of high-quality work with every iteration.
* knowledge **of MQTT security** principles, including TLS/SSL encryption, client authentication, and secure data transmission practices.
* Integrated GraphQL APIs into Android applications for efficient data querying and mutation
* Used Mitek API to enable the application to use the Camera feature to scan a document/check and deposit.
* Used Google Maps API to quickly find locations and navigate the directions to the nearest bank or ATM.
* Registered Broadcast receivers and responsible for implementing push notifications using Firebase Cloud messaging.
* Experienced in JavaScript XML; syntax extension used in React Native to describe the UI.
* Experienced in Integrating native Android code with React Native.
* Executed Espresso tests as part of the continuous integration (CI) pipeline or during development to catch issues early.
* Experienced with dependency injections (DI) and use of DI tools such as Hilt.
* Design, develop, and maintain Android applications using Kotlin.
* Utilizing Kotlin Coroutines, Intent Service, Threads, Handler, and Services to provide smooth UI experience.
* Developed user-friendly user interfaces using widgets like Jetpack Compose, Menus, Dialogs, Different Layouts, Buttons, edit boxes and Selection widgets like Recycler View/List View and Scroll View as per client need.
* Used tools like React Native Performance Monitor to profile and optimize app performance.
* Utilized Retrofit library with OkHttp for network calls.
* Worked with a mix of Kotlin and Java to facilitate development based on prior implementation of any feature (JAVA).
* Implemented MVVM pattern to fetch Live Data (real time transactions) as a Flow from remote data source (Model) and converted the flows to Live Data to be observed by the View.
* Integrated Retrofit2 to call services from backend for populating data and displaying layers and demand points on the ArcGIS map.
* Incorporated Dagger2 for dependency injection to provide reusability of the code.
* Responsible for consuming the REST services, getting XML, JSON response and parsing them using GSON and displaying it to UI.
* Worked closely with backend developers to define GraphQL schemas and ensure effective data fetching strategies.
* Wrote UI tests using Espresso and used AndroidJUnitRunner to run tests.
* Experienced in Advanced knowledge of software development methodologies, practices, concepts, and technologies obtained through formal training and / or work experience
* Designed and implemented modern, responsive user interfaces using Jetpack Compose.
* Migrated legacy XML-based layouts to Jetpack Compose for improved code maintainability and readability.
* Designing, implementing, and maintaining CI/CD pipelines specifically tailored for Android applications.
* Integrated ViewModel and LiveData with Jetpack Compose for efficient state handling and lifecycle management.
* Used Dagger2 as a dependency injector to create some reusable, interchangeable modules and maintainability of code and alterations with Gradle builds.
* Performed Unit testing using Mockito on the various modules/functions to ensure that the output is as expected.
* Tested the app across different versions of Android and different Android phones to ensure quality and performance.
* Worked closely with another mobile Android app developer, leading the IOS platform development.
* Discussed the requirements with the client and documented the requirements.
* Worked on debugging the application using Log cat, and DDMS.
* Integrated HTTP protocols to build communication between Android applications and remote servers.
* Used Google Play Developer API to integrate continuous integration and continuous deployment (CI/CD) workflows
* Leveraged the HTTP client libraries like HttpURLConnection or OkHttp to manage network requests and responses efficiently.
* Developed and consumed the RESTful APIs using HTTP methods (GET, POST, PUT, DELETE) to interact with backend services.
* Implement HTTPS for secure data transmission over HTTP protocols to protect sensitive information.
* Utilized the libraries such as Retrofit to simplify API integration, manage endpoints, and handle data parsing with JSON or XML.

**Environment:** Android SDK, Kotlin, Java, Android APIs, RESTFUL Web service, Dagger, DOM Parser, XML, JSON, GPS Service, HTML, CSS, Maven, GIT, Apollo, Gradle, RabbitMQ, MQTT, JUNIT.

**Client: Molina Healthcare, Bothell, WA Oct-2020-Sep-2022**

**Role: Android Developer:**

**Project description**: Molina Healthcare app provides managed health care services under the Medicaid and Medicare programs and through the state insurance Marketplace. Through our locally operated health plans, Molina Healthcare serves approximately 5.1 million members.

**Link to play store**: https://play.google.com/store/apps/details?id=com.molina.mobile.myhealthinhand&hl=en\_US

**Responsibilities:**

* Created a Changed task to run in the background in other threads aside from the User interface thread.
* Implemented Jetpack’s architectural components to improve performance, ease of maintenance and simplicity of app.
* Integrated **MQTT** with backend services and cloud platforms (e.g., AWS IoT, Google Cloud IoT Core).
* Used RabbitMQ to manage background tasks, handle long-running operations, and improve app responsiveness without blocking the UI thread.
* Debugged and resolved issues related to GraphQL data fetching, ensuring the app functions correctly under various network conditions**.**
* Transitioned app from MVP to MVVM architecture and implemented Singleton design pattern in specific reuse instances.
* Designed and implemented GraphQL queries and mutations based on application requirements.
* Used React Native for mobile app development.
* Refactored Java code to Kotlin and took advantage of reduced code overhead and consistencies.
* Developed the app in Android Studio and with JUnit, Mockito and Power Mock.
* Worked with Firebase Cloud Messaging (FCM) which was later used to send out reminders to crew members.
* Introduced Parcel Ables for object transfers within activities.
* Transitioned back-end communications from OkHttp to Retrofit with Kotlin Coroutines lightweight threading.
* Involved in requirement gathering, UI design and development.
* Implemented room controller’s recycler view in the connected room on Dashboard activity using MVVM pattern.
* Implementing MVVM pattern, RxJava2, dependency injection framework Dagger2 to create reusable, interchangeable modules in the application.
* Involved in the life cycle of the project including development, testing, re-design and deployment. Worked in an agile software development-based environment.
* Implemented MVVM pattern to fetch Live Data as a Flow from remote data source (Model) and converted the flows to Live Data to be observed by the View.
* Incorporated Dagger2 for dependency injection to provide reusability and ease if testing the code.
* Displaying the room controller tiles after successful check-in using api provided by back end.
* Developed and implemented custom Layouts, Views, AsyncTasks, Adapters, Lists, Fragments Activities, Interfaces, Listeners, Services and more.
* Designing Different Background services for the application with the help of handlers and registry.
* Used JIRA to keep track of outstanding bugs, participated in daily stand-ups, sprint reviews, and Kick-offs.
* Created social login using API's. Integrated user social accounts with the express account with Firebase.
* Participating in Agile working practices such as daily scrum meetings, reviews and retrospectives.
* Worked on designing the sleep timer and digital key module where check-in and checkout made flexible without the help of desk people.
* Worked extensively with Eclipse, Kotlin and Android SDK frameworks.
* Used Coroutines for multithreading.
* Designing, developing, debugging, and deploying software for server-side development using Kotlin as the primary language.
* Integrated HTTP protocols to build the communication between Android applications and remote servers.
* Leveraged the HTTP client libraries like HttpURLConnection or OkHttp to manage network requests and responses efficiently.
* Developed and consumed the RESTful APIs using HTTP methods (GET, POST, PUT, DELETE) to interact with backend services.
* Implement HTTPS for secure data transmission over HTTP protocols to protect sensitive information.
* Utilized the libraries such as Retrofit to simplify API integration, manage endpoints, and handle data parsing with JSON or XML.

**Environment**: Android Studio, Kotlin, Android, Java, JavaScript, SQL, UI, JSP, Servlets, HTML, Zeplin, Web Services, JMS, XML, Android Map View, API, MySQL, Gradle, CI/CD, Version Control, , RabbitMQ, MQTT, JUNIT

**Client: Delta Airlines, Atlanta, GA - Remote Apr 2019-Oct-2020**

**Role: Android Developer**

**Project description**: As a global airline, we connect with the communities, customers shop and book domestic and international flights and they Use the all-new “Explore” home screen to find, plan and book their next trip with ease. Moreover, customers can Track and pay for upgrades using your Sky Miles and Manage travel preferences and payment methods

**Link to play store**: https://play.google.com/store/apps/details?id=com.delta.mobile.android&hl=en\_US

**Responsibilities:**

* Developing highly interactive applications integrating with APIs and Created and Customized frames using Adobe
* Followed Agile process with two-week iterations delivering new features
* Modified interface to support new devices
* Experienced integrating RabbitMQ into Android applications to facilitate asynchronous messaging and communication between app components.
* Implemented the whole native Android side functions by Android SDK and Gradle
* Implemented Android side functions and accomplished unit-test and debug
* Tested the app across different versions of Android and different android phones to assure quality and performance.
* Designed and implemented modern, responsive user interfaces using Jetpack Compose.
* Migrated legacy XML-based layouts to Jetpack Compose for improved code maintainability and readability.
* Integrated View Model and Live Data with Jetpack Compose for efficient state handling and lifecycle management.
* Used Eclipse and Android Studio for developing, debugging, coding and deployment of the applications
* Detailed study of the Software Requirement Specification (SRS)
* Responsible for the coding for the enhanced requirements
* Developed the front-end screens for the respective modules. Created web interface using HTML, JSP, JavaScript and DOJO
* Implemented the application using Spring Framework which is based on Model View Controller design pattern on geo-location
* Used git for version control and Android Studio as an IDE for application development
* Implemented the database connectivity using DAO’s with Oracle database as backend
* Experienced in deploying the application and troubleshooting of WebSphere application server
* Used log4j for application logging
* Environment: Java, Android SDK, HTML5 REST, Android Studio, Windows 8, Adobe Photoshop, GIT, Gradle, CI/CD, Version Control, , RabbitMQ, MQTT, JUNIT

**Client:DhruvsoftServes Private Limited, Hyderabad, India Sept 2016-Nov-2018**

**Role: Android Developer**

**Responsibilities:**

* Wrote a set of documentation and user manuals for a series of previously written automated tasks
* Integrated Rubidium for test-driven development.
* Set up various tests using Mockito, Junit, and Espresso.
* Implemented UI and instrumented tests to troubleshoot and improve performance and user experience
* Used the View Pager Invigorator to provide feedback to the user about the background processing status.
* Managed the build creation with a Jenkins instance hosted on a private server.
* Liaison with the project team and delivering projects as per scheduled milestones.
* Created and maintained technical documentation of the application using Atlassian Confluence.
* Used Slack for team communication and Jira for user stories and issue tracking.
* Worked on the Jira backlog and troubleshot issues and fixed bugs.
* Used dagger for dependency injection in application project.
* Used Android Profiler to monitor application GUI performance.
* Implemented communication with web services Rx Java.
* Contributed on user login screens design, using multiple Views, Layouts.
* Configuration of various analytical tools, Gradle builds to retrieve useful information and.
* Interacted regularly with development team to ensure delivery on product quality and deadline adherence.

**Environment**: Android SDK, Java, ADT, Notification, Shared Preferences, Fragments, JSON, SQLite, HTML, JavaScript, CSS, Eclipse, XML, Gradle, CI/CD, Version Control

**Client: Blue Star InfoTech Mumbai, India Jun-2015-Sep-2016**

**Role: Junior Software Developer**

**Responsibilities:**

* Worked with business teams to understand requirements for each new device.
* Worked in Agile environment with two-week iterations delivering new features and working software at each iteration.
* Supported migration of newer version of android and web applications for existing devices.
* Implemented functionality to support application routing in existing devices
* Developed UI screens using JSP, XML, XSLT, HTML and DHTML
* Used log4j for application logging.
* Extensively used JavaScript for validating client-side HTML code.
* Used Struts framework as MVC implementation.
* Maintain an asynchronous AJAX based client for improved customer experience
* Used Build Forge, a Java Project Build tool to build and deploy entire System
* Used Git for version control and Eclipse as an IDE for application development
* Web sphere used as J2EE server.
* Experienced in excellent partnering, communication, negotiation skills, and execution in working with various Technology or partner Teams
* Involved in debugging the product using IDE’s and JIRA Bug Tracking.
* Prepare release notes and developed preloads for every change control
* Responsible for creating migration scripts during production deployments
* Worked with migration teams during production roll-out and provided on-call support when needed

**Environment**: Java, J2EE, Android SDK Struts, Spring, JDBC, XML, JSP, HTML, Java Script, AJAX, WebSphere, Windows, UNIX, Webservices, Git, CI/CD, Version Control

**Education:**

B.Tech: Computer Science – Shadan Women’s College of Engg and Technology—Aug 2014