Ganesh K

Application Developer

+1 603-438-8730 | sijjugk@gmail.com

**Professional Summary**

* **10+ years** of experience in mobile app development, specializing in **Android** and **React Native** platforms.
* Extensive experience in cross-platform development, creating apps for Android versions **2.0** to **11.x** and ensuring seamless functionality across various devices, including smartphones and tablets.
* Strong expertise in key Android components like **activities, services, content providers**, and **broadcast receivers**, essential for building efficient and responsive apps.
* Integrated widely-used APIs such as **Retrofit, Volley, GSON**, and **Picasso** to enhance app functionality, and utilized **React Native** for developing advanced features.
* Proficient in leveraging **Google Play Services** and developing hybrid apps with **Xamarin** and **Flutter** for both Android and iOS platforms.
* Experienced in modern web development with **AngularJS** and **NodeJS**, applying these technologies to improve mobile app development.
* Managed source control effectively using **GitHub** and developed apps with **Android SDK, Android Studio, Core Java**, and **Kotlin**.
* Built dynamic Single Page Applications (SPAs) with **React** **JS**, delivering fast and seamless user experiences.
* Hands-on experience with **CI/CD pipelines** using **Jenkins**, and utilized cloud services like **AWS** and **Firebase** for scalable app deployments.
* Skilled in **video streaming technologies**, ensuring smooth playback and media control in mobile apps.
* Strong debugging and memory optimization skills, using tools like **LeakCanary** and **Android-Lint** to improve app performance.
* Developed hybrid apps with **Ionic** and **Angular**, combining the flexibility of web apps with native performance.
* Thoroughly tested applications using **JUnit** and **Espresso** frameworks to deliver high-quality, bug-free releases.
* Competent in **iOS development** with experience in **XCode, Swift**, and **Objective-C**, creating well-structured iOS apps.
* Proficient in using **Figma** for UI/UX design, applying **UI/UX concepts** to create intuitive and user-friendly interfaces.
* Experienced with relational databases like **MySQL** and **SQLite** for efficient data management in apps.
* Familiar with **Agile** and **Scrum** methodologies, enabling efficient and collaborative development processes.
* Integrated payment gateways like **PayPal** into applications for secure and easy transactions.
* Developed **VOIP apps** using **SIP servers**, ensuring reliable and high-quality voice communication.
* Skilled in \*\*Java, Servlets, JSP\*, and various front-end frameworks, effectively bridging web and mobile app development.
* Developed intuitive and visually appealing user interfaces using established UI/UX design principles. Created user-friendly layouts and interactive prototypes with Figma.

**Technical Skills**

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| **Languages** | Java 8, J2EE, C, C++, Python, Kotlin, HTML, XML |
| **Operating Systems** | Windows 98/XP/7/10, Android, Linux |
| **Android OS Versions** | Android 2.x to 9.x |
| **Web Development** | JavaScript, React Native, HTML5, DHTML, XHTML, CSS, XML, XSLT, XSD, AJAX, GWT, JAX-WS |
| **Testing Frameworks** | Application Unit Testing, Android Unit Testing, Robotium, Robolectric, Espresso, JUnit, Mockito |
| **Databases** | Oracle, MySQL, MSSQL Server, AWS, PostgreSQL, MongoDB |
| **IDEs** | Android Studio, Eclipse, IntelliJ IDEA, NetBeans, IBM Rational Application Developer (RAD) |
| **Android Tools** | OpenGL ES, PhoneGap, Apache Cordova, Layout Design, Fragments, Multi-threading, NDK, Sensors, Beacons, Multi-touch, Profiling, NFC, Retrofit, Gradle |
| **Design Patterns** | Data Access Objects, Object-Oriented Design, Model-View-Controller (MVC), Front Controller |
| **Version Control Systems** | SVN, GitHub, Octave GUI, KNIME, Git |
| **Web Servers** | JBoss, WebLogic, WebSphere, Tomcat, Jetty, Apache |
| **Frameworks** | Spring (MVC, AOP, ORM, Web Service, DAO, Social, Security), Hibernate ORM 5.0.2, Bootstrap, Struts, Tiles, DWR (Direct Web Remoting) |
| **Other Tools** | Swing, Agile, RUP, Subversion, JasperReports, JMock, Microsoft Visio, Figma |
| **Methodologies** | SDLC, Agile (Scrum/Extreme Programming) |
| **Design/Version Control** | Rational ClearCase, CVS, Tortoise SVN, PVCS |
| **Parsing Techniques** | JSON Parsing, XML Parsing |
| **UI/UX Design** | Proficient in UI/UX design principles, including user research, wireframing, prototyping, and user testing. |

**Professional Experience**

**Adaptive Payment Systems March 2023 – Present**

**Plantation, FL**

**Application Developer**

**Responsibilities:**

* Participated in Agile practices, including daily Scrum meetings and Sprint retrospectives, to ensure consistent delivery of high-quality work within each iteration.
* Designed and developed C++ applications in LINUX/Unix and Windows environments, with strong expertise in Microsoft Foundation Classes (MFC).
* Utilized React Native components such as Forms, Events, Keys, Navigation, and Redux to access native APIs and integrate various libraries into existing applications.
* Identified and resolved critical issues, crashes, and hidden defects in Android mobile applications by providing quick and effective solutions through detailed analysis.
* Designed user interfaces using JSP, CSS, Struts Framework, Flash, JavaScript, and HTML for enhanced usability and user experience.
* Leveraged Kotlin extensions to efficiently manage UI views and employed RxJava for background service tasks and RESTful API interactions.
* Gained cross-platform development experience using Flutter for both Android and iOS, ensuring app compatibility across devices.
* Developed user interfaces using Android SDK and Eclipse plug-in, supporting both Portrait and Landscape modes for a seamless user experience.
* Designed and implemented various components, including tab bars, map views, image pickers, document pickers, push notifications, and sign-in/out functionalities.
* Created user-friendly interfaces with widgets like Menus, Dialogs, Layouts, Buttons, List Views, and Scroll Views, tailored to client requirements.
* Developed services using Bluetooth protocols and media streaming, and collaborated with Design and UX teams to enhance usability across Android devices while maintaining platform nativity.
* Worked with cloud interfaces, Bluetooth, sensors, and REST APIs to develop comprehensive mobile applications.
* Implemented event reminder features using Services and Alert Notification APIs, and employed frameworks like RxJava and Dagger 2 for event-bussing, async calls, and dependency injection.
* Supported applications across different Android API levels, handling location services, memory management, and Wi-Fi functionalities.
* Modified XML files to meet GUI requirements and integrated push notifications using Kotlin for real-time updates on account information.
* Utilized the Retrofit library with OkHttp for efficient network communication and improved data model architecture using the MVP pattern with Dagger 2 to ensure clean, maintainable code.
* Employed RxJava for simultaneous retrieval of user messages and settings, and made RESTful service calls using Volley and Retrofit libraries throughout the app development lifecycle.
* Implemented Material Design elements such as RecyclerView, Toolbar, CardView, and Floating Action Buttons, and customized the Action Bar and Progress Bar for a polished UI experience.
* Monitored log activity, threads, network connectivity, errors, and memory allocation using Dalvik Debug Monitoring Service (DDMS).

**Environment:** React Native, Android SDK, Android 7.0/ 8.0/ 8.1/ 9.0 /11. x, Eclipse IDE 4.6/4.7/4.8, Java, Gradle, Dagger 2, Android API's, Retrofit, Android NDK, Android Studio 4.1/ 4.2, OAuth 2.0, Kotlin 1.2/ 1.3, Android design library, Jenkins, JUnit, Espresso, Mockito JDK 1.6, LINUX, XML, JSON, HTML, CSS, SQLite 3.27/3.30, GPS service, Log cat, Gitlab.

**SmartThings Jan 2022 – Feb 2023**

**Mountain View, CA**

**Application Developer**

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* Monitored log activity, threads, network connectivity, errors, and memory allocation using Dalvik Debug Monitoring Service (DDMS).
* Performed fast, efficient UI tests with Espresso, eliminating the need for manual syncs and waits, and developed apps using MVP architecture in Android Studio for improved code reusability and test coverage.

**Environment:** React Native, Android SDK, Android 7.1/ 8.0/ 8.1, LINUX/Unix, SQLite 3.15/3.23, JAVA, Eclipse IDE 4.4/4.6, Android API's, JDK 1.6, XML, CSS, JSON, Android Studio 3.1/ 3.2, GPS, OAuth 2.0, ADT Plug-in, CVS (version control), Espresso, Kotlin 1.2, GMS, Gradle, TDD, JUNIT, Dagger 2, JSON, JNI, Logcat.

**Kindred health care Nov 2020 – Dec 2021**

**Denver, CO**

**Application Developer**

**Responsibilities:**

* Collaborated with Business Teams and Product Owners to gather and refine requirements.
* Designed user interfaces using Constraint Layouts and Material Design principles.
* Implemented the MVVM design pattern while adhering to TDD and Pair Programming practices.
* Ported software to shared libraries on Tandem OSS and Linux, involving modifications to makefiles and C/C++ code.
* Utilized AWS tools such as Jenkins for continuous integration and SonarQube for code quality checks.
* Employed Reactive Programming and Retrofit for network operations and RESTful services.
* Integrated Google Maps and Google Places APIs to provide location-based services based on user location.
* Proactively learned React Native, leading to the successful development of various features with minimal supervision.
* Converted the entire codebase to React Native, ensuring feature parity with the previous implementation.
* Played a key role in UI development, leveraging XML, drawable resources, RecyclerViews, activities, fragments, custom views, and layout managers like Linear, Relative, and Table Layouts.
* Developed functionality for navigation and communication between React Native and native components.
* Utilized Eclipse and Android Studio for application development, debugging, and deployment.
* Implemented OAuth token-based HTTP communication to access Translate APIs securely.
* Conducted unit testing using frameworks such as Mockito, Espresso, and JUnit.
* Integrated animations using the Lottie Animations framework.
* Implemented Beacon integration with BLE (Bluetooth Low Energy) support.
* Secured the application by obfuscating code with ProGuard and implementing encryption standards like AES.
* Handled API calls with Retrofit, incorporating error handling and caching through a parent callback interface.
* Used DOM API and Ajax to create dynamic, interactive experiences within the application.
* Implemented SSL certificates for secure HTTP communication, adhering to encryption standards.
* Conducted penetration testing to identify and address vulnerabilities within the app.
* Integrated biometric authentication for secure app login.
* Applied Dagger for dependency injection, ensuring clean and maintainable code.
* Configured Gradle scripts to support multiple flavors and build variants of the application.
* Implemented push notifications using Firebase Cloud Messaging and utilized Google Tag Manager and Firebase Analytics for performance monitoring.
* Integrated Dynatrace for real-time performance monitoring and analysis.

**Environment:** React Native, Android SDK, Jenkins, XML, CSS, OAuth, Android 7.1/ 8.0, Java, SonarQube, Kotlin v1.0 JIRA, SQLite, GIT, Eclipse IDE 3.8/4.2/4.3 Splunk, Espresso, Android Studio 2.2/2.3.

**Honeywell Nov 2019 – Oct 2020**

**Atlanta, GA**

**Application Developer**

**Responsibilities:**

* Collaborated closely with Business Teams and Product Owners to gather requirements and ensure alignment with project goals.
* Actively participated in Agile practices, including daily Scrum meetings and Sprint retrospectives.
* Developed custom Java and Kotlin UI libraries for third-party app integration.
* Designed and implemented React Native components, including higher-order components, to enhance app functionality.
* Utilized React Native for key components like Forms, Events, Keys, Navigation, and Redux, while refactoring app navigation using React Navigation for a native-like experience.
* Created user-friendly interfaces with widgets such as Menus, Dialogs, Layouts, Buttons, and Edit boxes.
* Developed applications using RESTful services, React.js, JavaScript, and various developer tools and APIs to meet client specifications.
* Implemented Kotlin features within Android apps, including email and SMS functionalities.
* Developed embedded software, including device drivers and Linux kernel modules, and performed a complete code base conversion to React Native while maintaining feature parity.
* Experience with XML parsing and JSON for client-side data processing, using DOM-based feed parsers.
* Designed advanced streaming applications for the Android platform.
* Developed interactive screens using HTML5, CSS3, JavaScript, jQuery, AngularJS, Angular 2, React.js, and Node.js.
* Integrated RESTful web services with OAuth 2.0 authentication and JSON for secure data transactions.
* Implemented Material Design features using Recycler View, Toolbar, Card View, and Floating Action Buttons.
* Developed hybrid applications using the Ionic framework for both Android and iOS platforms.
* Leveraged JavaScript expertise with React and Flux/Redux for efficient state management.
* Facilitated network communication using Retrofit and improved app performance through the integration of third-party libraries like Dagger 2 and Butterknife.
* Contributed to hybrid Android app development using JavaScript and PhoneGap.
* Utilized web services (HTTP-based, XML, SOAP, JSON) to connect apps to critical server-side APIs.
* Scheduled jobs on Unix servers using Resource Manager and managed data representation with RxJava.
* Employed Kotlin for higher-order functions and delegate design patterns, enhancing code efficiency.
* Developed cross-platform mobile applications using Xamarin Forms, focusing on components like tab bars, map views, image pickers, document pickers, push notifications, and sign-in/out functionalities.
* Identified and resolved critical issues in Android apps, offering quick fixes through analysis.
* Refactored legacy code with Dagger for dependency injection, creating reusable and testable modules.
* Managed build dependencies in Android Studio using Gradle and tested apps across various Android versions and devices to ensure quality and performance.
* Integrated Google Maps API and GPS location data into apps, complete with zoom controls.
* Designed screens using the MVVM pattern within Android Studio IDE, enhancing code structure and maintainability.
* Employed RxJava for threading abstraction and implemented Shared Preferences for storing user data and app settings.
* Developed selection widgets like List View using Array Adapters and Scroll View to meet client requirements.
* Adhered to Agile methodologies using JIRA, Confluence, Git, and Slack tools, ensuring efficient project management.
* Retrieved server data using JSON objects and managed activities with implicit and explicit intents.

**Environment:**React Native, Android SDK, Android 7.0/ 8.0/ 8.1/ 9.0, Android Studio IDE 3.5/3.6/4.x, Java, Gradle, Dagger 2, Android API's, Retrofit, Android NDK, Android Studio 3.4/ 3.2, OAuth 2.0, Kotlin 1.2/ 1.4, Android design library, Jenkins, JUnit, JDK 1.6, LINUX, XML, JSON, HTML, CSS, SQLite 3.27/3.30, GPS service, Log cat, Git, Espresso.

**Goal Street Inc. Feb 2016 - Dec 2018**

**Hyderabad, India**

**Mobile Application Developer**

**Responsibilities:**

* Participated in various phases of the project life cycle, including design, development, and testing of Android mobile applications.
* Engaged in requirement gathering, UI design, and development, with a focus on implementing Recycler Views and List Views.
* Designed user interfaces using custom layouts, buttons, dialog boxes, alert boxes, and edit boxes to enhance user experience.
* Utilized Dagger for dependency injection and leveraged Android integration tools like Gradle to streamline development.
* Implemented Retrofit for API integration, handling error functions and caching automatically.
* Retrieved contact data from devices using content providers and designed application screens in Native Android Studio IDE following the MVC pattern.
* Played a key role in writing application logic using Eclipse IDE and Android SDK.
* Applied Dagger for dependency injection during class testing.
* Managed data storage using SQLite databases for efficient data handling.
* Experienced in Android networking libraries such as Volley, ION, and Retrofit.
* Developed and enhanced features to enforce usage restrictions based on authorization and authentication tokens.
* Possesses strong expertise with Android Framework APIs, including Google Maps, Camera, Resource Manager, Fragments, Location Manager, Notification Manager, Content Providers, Contact Manager, and REST APIs.
* Developed RESTful web services to facilitate client-server communication.
* Managed version control using GIT for efficient code management and collaboration.

**Environment:** Android Studio, Android SDK, Android 5.0/ 6.0/ 7.1.2, SQLite, Volley, Android API's, XML, JSON, Services, Broadcast Receivers, GPS, SQLite, Eclipse IDE 3.8/4.2, VCS, Dagger (version control), Espresso, Logcat, GIT, JIRA.

**Northwin Technologies Pvt. Ltd Aug 2013 - Jan 2016**

**Bengaluru, India**

**Android Developer**

**Responsibilities:**

* Contributed to the development of new features for Android applications, ensuring functionality on both phones and tablets.
* Developed applications using Android SDK and collaborated with back-end teams to integrate front-end and back-end code.
* Created unit tests for mobile code and resolved critical issues such as crashes, concurrency problems, and memory leaks.
* Integrated multiple systems to facilitate seamless data transfer across various layers of the software stack.
* Managed Bugzilla workflows and effectively executed tasks within an Agile framework.
* Accessed and managed contact data from devices using content providers.
* Designed application screens using Native Android Studio IDE, following the MVC pattern for structured and maintainable code.
* Displayed dynamic content in applications using Web Views and List Views, and populated lists effectively.
* Utilized Content Providers for in-app text messaging and email functionalities, and maintained version control with GIT.
* Managed user settings and data storage using Shared Preferences and SQLite databases, applying the MVC design pattern.
* Authored step-by-step resource manuals for application procedures, ensuring clear and accessible documentation.
* Stored and retrieved data across user sessions using Shared Preferences, and monitored data using SQLite databases.
* Improved app performance through multithreading using AsyncTask and optimized data extraction and display using XML.
* Designed adaptable layouts compatible with both portrait and landscape modes and various screen resolutions.
* Implemented screen navigation using Tab View and retrieved server data through JSON objects.
* Developed application logic, including RESTful web services to display product details and user profiles.
* Enabled server communication through JSON and implemented authentication features for secure application access.
* Utilized Activities and Fragments to create application screens and workflows, customizing UI elements such as toasts, buttons, dialogs, and other widgets.

**Environment:** Android Studio, Android SDK, Android 5.0/ 6.0, Core java, Bugzilla, Eclipse, Agile Methodology, JSP, SQLite, CSS 3, GIT, MVC, SQLite, Eclipse IDE, JSON, XML, JavaScript, RESTful web services, Android SDK, Linux.

**Education**

Bachelor Of Information Technology, SICET, Hyderabad, India- May 2013

Masters of Science in Computer and Information Sciences, New England College, New Hampshire, USA – Aug 2020