**Shekhar Chandra**

**Mobile Application Developer**

**Contact No: 380-388-3682 |** [**rajasekhar.a@meridiansoft.com**](mailto:rajasekhar.a@meridiansoft.com)

**OBJECTIVE:**

Overall 10 years of IT experience having As a skilled mobile application developer with experience in Kotlin, Flutter, Swift, and Xcode, I have developed and deployed applications for various industries, including retail, health, farming, and banking. My expertise in programming languages and frameworks such as Kotlin, Flutter, Swift, and Xcode enables me to develop innovative solutions that meet industry-specific requirements. In addition, my experience in e-commerce applications, health management systems, crop management tools, and banking services has allowed me to develop and deploy solutions that provide seamless experiences to users. With my skills in cross-functional collaboration, effective communication, and project management, I am confident in my ability to deliver high-quality software solutions that meet the unique needs of diverse industries. With a focus on user experience, security, and performance, I am committed to delivering mobile applications that exceed expectations and drive business success.

**SUMMARY:**

* Expertise in Kotlin, Flutter, Swift, and Xcode, with a track record of developing and deploying mobile applications for diverse industries including retail, health, farming, and banking. Experience in developing applications for multiple platforms, including iOS and Android, using cross-platform frameworks such as React Native and Xamarin.
* Proficiency in using Kotlin for developing Android mobile applications, including features such as user interfaces, background services, and push notifications.
* Experience with Android mobile app development using Kotlin, Coroutines, Kotlin Multiplatform Mobile (KMM), advanced Kotlin concepts, Kotlin extensions/libraries, Android Studio IDE, Kotlin-Java interoperability, Kotlin's role in larger mobile app development ecosystem, server-side development, web development, desktop applications, retrofit APIs, microservices, testing methodologies and frameworks, Kotlin/Native, data processing, machine learning, scientific computing, compatibility with JVM-based languages, and Kotlin's tooling ecosystem.
* Extensive experience in developing native iOS applications using Swift, including proficiency in using the latest versions of Xcode and iOS SDK. Worked on Swift's syntax and features and used UI Kit, Auto Layout, and Interface Builder to create complex user interfaces that are optimized for various screen sizes and device orientations.
* To integrate GraphQL into your Android app, we can use various libraries. One popular library is Apollo Android, developed by the GraphQL team at Facebook. Apollo Android generates type-safe Java or Kotlin models from our GraphQL schema and queries, making it easier to work with GraphQL data in our app.
* Expertise in iOS app design and development. Experience in implementing networking and data persistence using RESTful APIs, Core Data, and other iOS-specific frameworks. Understanding of iOS app architectures such as MVC, MVVM, and VIPER, and experience in selecting and implementing the appropriate architecture for a given project.
* Expertise in Kotlin extensions and libraries for implementing common functionality in mobile applications, such as image loading, networking, and database access.
* Knowledge of software testing methodologies, including unit testing, integration testing, and UI testing, and experience in writing test cases and test automation scripts using Appium.
* Understanding of mobile application security principles, such as secure data storage, encryption, and user authentication, and experience in implementing secure solutions.
* Understanding with cloud platforms such as Azure and Google Cloud Platform and experience in deploying and managing mobile applications on the cloud. Skill with App Store submission process and ability to troubleshoot issues related to app distribution and provisioning.
* Used APM (Application Performance Management) as New Relic and Dynatrace for monitoring and optimizing the performance of mobile applications in production environments.
* Knowledge of deployment and CI/CD (Continuous Integration/Continuous Delivery) processes, familiarity with tools like Jenkins or GitLab, and experience in managing application releases.
* Focused on user experience, security, and performance, committed to delivering mobile applications that exceed expectations and drive business success. Developed and implemented mobile application strategies that aligned with the goals and objectives of the businesses in various industries.
* Proficiency in using source control tools such as Bitbucket, Git and SVN to manage code repositories and collaborate with other developers.
* Experience in configuring data ingestion mechanisms in Splunk, such as HTTP Event Collector (HEC), mobile SDKs, to receive data from mobile apps securely.
* Collaborated with cross-functional teams, including designers, product managers, and quality assurance professionals, to deliver mobile applications that met the needs of end-users.
* Demonstrated success in creating responsive, user-friendly, and visually appealing mobile applications that drive customer engagement and loyalty.
* Utilized Agile and Scrum methodologies to manage development processes, ensuring timely delivery of projects and high-quality outcomes.

**TECHNICAL SKILLS:**

Languages:  C, C++, Java 8, Python, Kotlin, flutter, Elixir.

Operating Systems:  Windows (10/8.1), Ubuntu, Mac, Linux

Scripting languages:  HTML5, CSS3, DHTML, XML, JavaScript, JSON, XML, XSL, XSLT, JSP, JSTL, Maven3.0, Ant 1.5/1.7, AJAX, jQuery, Objective c.

Databases:   Oracle, MySQL, MSSQL Server, Sybase, PostgreSQL, MongoDB, SQLLite3, relational.

IDE:  Studio, Eclipse, IntelliJ, NetBeans, IBM Rational Application Developer (RAD)

Version controls:  SVM, GitHub, CVS, SVN, ClearCase, Xcode 3.0, Bitbucket.

Web Servers/Services:  JBoss, WebLogic, WebSphere, Tomcat, Jetty, Apache, SOAP, REST, WSDL, UDDI, Spring Boot Microservices

Other Tools:  JIRA, Confluence, Bamboo, Sonar, Fisheye, Taiga.io, GitHub, AEM, JNI, HAL, DevOps,

Frameworks:  Retrofit, Espresso, Glide, Picasso, Dagger, HTTP, OAuth, .NET, Google, CORDOVA, ionic Junit, UWP, mocha, Event bus.

Database Tools:  SQL Developer, TOAD 9.0, MSSQL Server Management Studio

Build Automation Software: ANT, Maven, Jenkins, Shell Scripts, Batch Scripts, Testing, Code Quality and Bug Tracking Tools JUnit, Mockito, JIRA.

XML Technologies:  DOM, SAX, JAXP, JAXB, XML-RPC and XML Beans.

**PROFESSIONAL EXPERINCE**

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| **Ahold Delhaize, SALISBURY, NC USA DEC 2022 – Till Date** |
| **Role: SR. MOBILE DEVELOPER** |

**Project 1:** Ahold Delhaize is a global retail company that operates various brands across the world headquarters in Netherlands, including several in the USA. USA brands Stop & Shop, Giant Food, Food Lion, Hannaford, Martin's Food Markets, Giant/Martin’s, is currently working on an Android and IOS picking application as part of their click and collect project. This project aims to provide customers with a convenient way to shop for groceries online and then pick them up at a designated location.

**PROJECT GOALS:**

* Aim to develop an application that optimizes the process of picking and fulfilling customer orders in a retail environment. Focus on features such as real-time inventory management, route optimization, and automated order allocation.
* Create an intuitive and user-friendly interface for the picking application to enhance the productivity of retail employees. Consider incorporating features like barcode scanning, voice commands, and visual cues to streamline the picking process.
* Ensure seamless integration with existing backend systems, such as inventory management and order processing systems. Ability to work with APIs and data synchronization to provide real-time updates and accurate information to both employees and customers.
* Implement an offline mode functionality that allows the picking application to work even in areas with limited or no network connectivity. This feature ensures uninterrupted operations and enables retail employees to continue fulfilling orders without disruptions.
* Integrated multiple React Native packages like react-native-navigation, react-native-firebase, Analytics etc.
* Optimize the application's performance to handle large volumes of data and ensure quick response times. Employ techniques such as caching, background processing, and efficient data retrieval to deliver a smooth and responsive experience.
* Design the application with scalability in mind to accommodate future growth and expansion. Consider the ability to add new features, support multiple retail locations, and adapt to evolving business requirements.
* Implement thorough testing methodologies, including unit tests, integration tests, and user acceptance testing. Demonstrate your ability to deliver a high-quality and bug-free application by adhering to best practices in software testing.

**ROLES AND RESPONSIBLE:**

* Experience in developing Android applications, familiarity with Android SDK, and understanding of Android app architecture.
* Understanding of apple’s design principles and interface guidelines and working experience with React Native framework.
* Connect the app to the retail store’s backend systems, such as databases, APIs, Tomtom or cloud services. Utilize Kotlin libraries like Retrofit, HTTP for network requests and Room for local database storage.
* Developed Xamarin Native performance to compile native code for resource-intensive apps or apps with demanding animations and Integrated library to Android platform API for common device features like sensors, connectivity, and permissions, simplifying the task of working with device-specific functionality.
* Creating custom dashboards and visualizations in Splunk to monitor the performance and usage of mobile apps.
* Developed a cross platform native Mobile applications which supports iOS, Android and UWP using Xamarin Forms.
* Very effective written and oral communication skills. proficient in Swift and Cocoa Touch or Xamarin or React Native.
* Implemented the graph designs using the charts flutter package to show the Weather tracker.
* Design and Developing in React Native or React JS.
* React Native apps can work offline, which can be beneficial for customers in areas with limited connectivity.
* Extensive experience in creating User Interface (UI) by using Xamarin. Forms with XAML.
* Create custom XAML controls for Silverlight and WPF Applications enhancing the UX/UI.
* Ability to create visually appealing and user-friendly interfaces for Android and iOS applications, knowledge of UI/UX design principles, and proficiency in tools like Figma, invasion, Sketch or Adobe XD.
* Experience in server-side development, knowledge of RESTful APIs, and proficiency in backend technologies such as retrofit and JAVA.
* Developed reusable and optimized .NET components using C#.
* Experience with automated testing frameworks like Appium, Espresso, and Detox to write automated tests to verify the functionality and behavior of mobile apps across different devices and platforms.
* Worked on performance testing tools like Apache JMeter and LoadRunner help simulate real-world user loads and identify performance bottlenecks in mobile applications.
* Strong testing skills, familiarity with testing frameworks and tools for mobile applications, and the ability to identify and report bugs effectively.
* Understanding of mobile app security best practices, knowledge of encryption and data protection, and experience in implementing security measures.

**Project 2** -IOS App & Android App: Customer facing and staff app to help customer to notified when order get ready, and any substitution required during the order pick.

Brand new Click and Collect (CNC) Application.

This Click and collect application will direct shoppers through picking a batch of orders into pre-determined bags or “totes” and after the order is ready for delivery it directs the customer for pickup and the remaining process will be done through payment tech batch to pay the amount.

**Responsibilities:**

* Accounts framework and Key chains integrated to allow users to login and manage their account information.
* Worked in XCode using Swift and Objective - C coding, as well as various frameworks and design patterns.
* Developed various UI elements used throughout the app.
* Worked closely with product team to determine requirements and business logic.
* Worked closely with TDD, developing unit tests to validate functionality and business logic as per determined requirements documentation.
* Redesigned the Consumer application in Swift language dealing with barcodes, weekly ads, coupons, purchase history etc.
* Created POCs working with Swift for potential new features and functionality.
* Worked on Implementation UI screens using storyboard in iOS 9 and iOS 10 with the help of Stack view and Auto layout and size classes.
* Using React Native framework for iOS creating an application. By Core animation we create Custom animation
* Migrated Project from iOS 8 to iOS 9.
* Executing initiation, planning, technical analysis, design, code, debug and testing of iOS and Android mobile applications.
* Working experience on Swift language using Tuples, Optional, enums and so on.
* Implemented the scanner functionality of the application using the Zebra Crossing library for Barcodes.
* Used Firebase Push Notifications for sending notifications and alerts to users to make them aware of upcoming lessons and new content, etc.
* Using Azure Devops as a CI/CD tool, and the tools included for agile practices.
* Implemented new Android Firebase Crashlytics to store, retrieve users account, Realtime crash reporter that helps to track, prioritize, and fix stability issues that erode your app quality.
* Hands on experience of real time data synchronization with Firebase Crashlytics also an opportunity to proactively reach out to users impacted by ongoing issues. Fixing bugs related to Android and UWP also tracking issues and logging bugs in TFS.
* Responsible for consuming the REST services, getting JSON response and parsing them to get the required information.
* Worked on various NDK apps for material design layouts.
* Involved in the iterative process of development in Agile and Scrum environment.
* Used Android SDK and Eclipse IDE for development.
* Tested the app across different versions of Android and different android phones to assure quality and performance.

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| **Bupa British United Provident Association London, UK FEB 2020 – September 2022**  **GEO BLUE, King of Prussia, PA USA** |
| **Role: SR. MOBILE DEVELOPER** |

The app will provide a convenient way for users to book appointments with BUPA healthcare providers, including doctors, specialists, and therapists. It will also send reminders for upcoming appointments, helping users stay organized and manage their healthcare needs effectively.

**PROJECT GOALS:**

* Recognizing the importance of remote healthcare access, the app will offer telemedicine services. Users will have the option to schedule virtual appointments with healthcare professionals, enabling them to receive medical advice, prescriptions, and follow-up consultations from the comfort of their own homes.
* Health Monitoring and Wearable Integration: The BUPA app will integrate with various wearable devices, such as fitness trackers or smartwatches, to monitor health data like heart rate, steps taken, sleep patterns, and more. This integration will provide users with a holistic view of their well-being and allow them to set health goals.
* BUPA aims to integrate with electronic health record systems, allowing users to access their medical records and test results directly within the app. This integration will facilitate seamless information sharing between healthcare providers, ensuring continuity of care.
* Experienced in Web Services/API testing using POSTMAN, SoapUI tools. Used Rest Assured for automating Rest API services.
* GraphQL can help extract data for analytics purposes, enabling healthcare organizations to gain insights from aggregated patient data while ensuring data protection.
* Expertise in Android App development with Android SDK using Android Studio, Xcode for iOS apps and React Native using VS Code and React JS.
* The app will offer a range of resources to support overall health and well-being, including access to mental health support, stress reduction techniques, healthy recipes, exercise routines, mindfulness exercises, and educational content on various health topics. These resources aim to empower users to proactively manage their health and make positive lifestyle choices.
* Secure Data Protection: BUPA will prioritize data privacy and security, employing robust encryption and compliance with relevant data protection regulations. Users can trust that their personal health information will be kept confidential and securely stored within the app.

**ROLES AND RESPONSIBILITIES:**

* Proficiency in mobile app development frameworks and languages such as Java or Kotlin for Android and Swift for iOS is essential. These skills enable developers to create native applications that offer optimal performance and integration with the respective platforms.
* Design skills are crucial to create an intuitive and visually appealing interface for the app. A good understanding of UI/UX principles, wireframing, prototyping, and usability testing will be utilized to ensure a seamless user experience.
* Healthcare applications often need to display patient data in different ways based on user roles and preferences. Graph QL allows developers to create tailored queries that return only the relevant data, optimizing the user experience.
* Used Appium to support automation for both iOS and Android platforms, allowing you to write tests once and run them on multiple devices and operating systems.
* **Rx Java 2:** Rx Java can be used to handle WebSocket connections. This is crucial for real-time features such as live chat and notifications.
* C#, Vb.Net Developer, Win forms, UWP, Xamarin Forms, WPF, XAML, Windows Phone, ADO.Net, Windows Application Development.
* Integration with various external services, such as healthcare databases, wearable devices, electronic health records, and payment gateways, will be necessary. Familiarity with RESTful APIs and authentication protocols (OAuth, JWT) will enable seamless communication between the app and external systems.
* Leveraging cloud platforms like Amazon Web Services (AWS), Microsoft Azure, or Google Cloud Platform (GCP) can provide scalable and reliable infrastructure for hosting the app's server-side components, data storage, and computing resources.
* Integrating with wearable devices necessitates knowledge of relevant SDKs, such as Google Fit for Android or HealthKit for iOS. This enables the app to access and analyze health-related data from wearable devices.
* Skill in testing methodologies, including unit testing, integration testing, and user acceptance testing, is crucial to ensure the app's stability, functionality, and overall quality. Automation testing frameworks and tools can help streamline the testing process.
* Incorporating analytics tools, such as Google Analytics or Firebase Analytics, helps track user behavior, app performance, and identify areas for improvement. Monitoring tools like Crashlytics or Sentry assist in identifying and resolving app crashes or errors.

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| **ONJOB Group BANGALORE, INDIA May 2015– DECEMBER 2019** |
| **Role: MOBILE APPLICATION DEVELOPER** |

**PROJECT GOALS:**

* Develop a visually appealing and user-friendly interface that allows users to navigate effortlessly through various features and functions of the financial application. Implement robust security measures such as two-factor authentication (2FA), or PIN/password protection to ensure the confidentiality and integrity of user accounts.
* Include a feature that enables users to set budgets, track expenses, and categorize transactions. Provide visual representations, such as charts or graphs, to help users understand their spending patterns easily.
* Integrate the application with various financial institutions and allow users to view their bank accounts, credit cards, investments, and loans in one place. Provide real-time updates and notifications for any changes or transactions.
* Implement a feature that reminds users of upcoming bill payments, such as utilities, rent, or credit card bills, and offer options to automate or schedule payments directly from the application.
* Automatically categorize expenses based on transaction data and provide users with detailed analytics and insights into their spending habits. This can help users identify areas where they can cut back and improve their financial well-being.

**ROLES AND RESPONSILTIES:**

* Strong understanding of core Java concepts, object-oriented programming (OOP), and Java libraries/frameworks relevant to Android development.
* Knowledge of Android SDK (Software Development Kit) and experience in building Android applications using Java. Familiarity with Android Studio, the official IDE (Integrated Development Environment) for Android development.
* Ability to create visually appealing user interfaces using Interface Builder and programmatically using Objective-C code, implementing interactive features and handling user input effectively.
* Android Studio and Xcode provide built-in debugging and testing capabilities for identifying and fixing issues in the code. Additionally, tools like JUnit for Java and XC Test for Objective-C can be used for unit testing.
* Understanding of SQLite database and Tomtom using it to store and retrieve data efficiently within the Android application. Knowledge of Android's Shared Preferences for storing application preferences.
* Experience in integrating with external APIs (Application Programming Interfaces) for fetching financial data, making network requests, and handling JSON/XML data formats using Java libraries like Volley.
* Experience in developing iOS applications with TomTom API, reverse Geocoding using core location framework, UI design using multiple views and backend coding using Parse.
* Proficiency in handling multithreading and asynchronous tasks in Android applications using Java's concurrency features like threads, handlers, Async Task, or newer approaches like Kotlin coroutines.
* Knowledge of implementing secure data transmission and storage techniques, such as HTTPS communication, encryption algorithms (e.g., AES), and secure storage of sensitive information like passwords or financial data.