**[SANKAR KOSURI](https://sankars-portfolio.webflow.io/about)  
Senior Android Developer**

**Professional Experience**

* Having around 7 years of experience in Analysis, Design, Development, and testing of Android, Object object-oriented applications.
* Proficient in various technologies like Kotlin, Java and Android SDK.
* Extensive experience in using Android Studio and Eclipse IDE.
* Implement UI and UX features for hardware experience, including animations, text display, and interaction patterns.
* Advanced analytical skills, in-depth knowledge of Software Development Life Cycle (SDLC).
* Skilled at developing secure, reliable Android applications with advanced technical skills including Android SDK, Java, Kotlin, Gradle, XML, Jetpack Compose, and GraphQL.
* Built apps that communicate with REST services and APIs using Retrofit or OkHttp to connect Android applications to back-end services.
* Experience with unit testing frameworks such as JUnit, Mockito, and Espresso to ensure code quality and reliability.
* Continuous integration/continuous deployment (CI/CD) practices.
* Experience using SonarQube or similar tools to identify code smells and maintain high code quality standards.
* Experience with real-time communication protocols including WebSocket, WebRTC, etc.
* Strong knowledge using Linux based system and configuring it over network.
* XML (Recycler Layout, Relative Layout, Constraint Layout, and Linear Layout)
* Hands-on experience in designing web pages using HTML, Java Script, CSS, Bootstrap.
* Proficient with Android SDK versions.
* Strong knowledge in SDLC, Agile (Scrum).
* Conducted thorough code reviews to maintain android code quality, adherence to best practices, and alignment with project requirements.
* Collaborated closely with QA engineers to identify and resolve android related bugs and performance bottlenecks.
* Actively participated in Agile/Scrum development methodologies, contributing to sprint planning, daily stand-ups, and sprint retrospectives for native android projects.
* Good Experience on Project plan, Architecture, Design, Development, Testing, Maintenance, and documentation of various Client applications.
* Experience with version control concepts including branching, merging, and conflict resolution.
* I can speak up to set realistic expectations for a project with client and product owner.
* Working at the client location as team lead and an onsite coordinator and the production support analyst. Gathered requirements from the stakeholders, created user stories on Jira, provided estimations, performed sprint planning, functional testing, and other production deployment activities.
* Provided customer support and on-call production support using JIRA for tracking customer queries and defect fixes.
* Worked on creation of technical design documents.Reliability, scaling, and execution to build mobile apps in an emerging product space.
* Ability to communicate highly complex technical information clearly and articulately for all levels and audiences.

**Technical Knowledge**

**Languages/skills:** Kotlin, java, Retrofit, Dagger, Jetpack Compose, and NavGraph, Networking, Material Design, Android SDK,GraphQL, Kotlin Microservices, Google Firebase crash analytics, XML, HTML5, DBMS, C.

* **Tools/utilities:** Google Firebase, Net Beans, Visual Studio, Android Studio, Intellij, Jira, Rally, SonarQube, Figma, GIT, Drawio, Microsoft 365 office tools, Image Analyzer, Eclipse, Postman, Adobe tools, MS Microsoft, vysor, sublime text 3, code builder.
* **Database:** MySQL, SQLite,MongoDB.
* **Operating System:** Windows (7, 8, 10, 10 pros,11),Linux (Ubuntu) and Mac OS.

**Professional Experience:**

**American Tech vision solutions Houston,TX July 2024-present.**

**Role :** Senior Android developer.

**Client**:Comcast

**Project Description:** Development of a payment and Customers module within the Einstein 360 project. This involves creating and integrating Kotlin-based microservices that utilize GraphQL for efficient data querying and manipulation. Additionally, we will develop corresponding Android applications to ensure seamless user interactions with the payment system.

* Design and implement microservices for the payment and customers module using Kotlin.
* Integrate GraphQL for API communication, ensuring efficient data fetching and updates.
* Develop robust and scalable backend systems that handle payment processing and transactions.
* Collaborate with front-end developers to ensure seamless integration with the Android application.
* Write unit and integration tests to ensure the reliability and stability of microservices.
* Integrated Kotlin Coroutines for efficient asynchronous tasks and background processing.
* Conducted extensive testing using JUnit and Mockito, covering both unit and instrumentation tests for Microservices.
* Set up automated deployment processes to various environments (development, staging, production) using Concourse pipeline.

**Accenture, Hyderabad,India Dec 2021 – May 2024  
  
Role :** Custom Software Engineer  
**Client**:Xfinity

**Project Description:**Xfinity Mobile app is a telecommunication customer application, part of Comcast which manages the customers to avail the benefits of buying the service lines, devices, update & switch the plans, manage payments & view the billing history. It also supports to avail the benefit of International Roaming calls and its charges.

* Implemented new features into the existing project using Kotlin, in alignment with project requirements.
* Engaged in Agile methodology, focusing on user stories and resolving QA-raised defects.
* Oversaw project deliverables, conducting code reviews and peer evaluations to maintain quality standards.
* Interacted with stakeholders to translate functional requirements into technical designs for application development.
* Facilitated discussions, both offshore and onsite, concerning project milestones and outcomes.
* Utilized Gerrit for code review and integration of changes, fostering collaboration within the team.
* Conducted UI design analysis using Figma to create intuitive and user-friendly interfaces, ensuring a seamless user experience through wireframes, prototypes, and detailed design specifications.
* Implemented and managed dependency injection throughout the application using Dagger, ensuring efficient and decoupled code.
* Integrate with backend services using Retrofit and GraphQL to fetch and manage customer data and service plans.
* Utilize Jetpack Compose to create intuitive and responsive user interfaces.
* Experience with Jetpack Compose Navigation for managing in-app navigation between screens.
* Utilize Git for version control, managing branches, pull requests, and merges to ensure code integrity and collaboration.
* Integrated automated testing into the CI/CD pipeline, including unit tests, UI tests, and integration tests.
* Configuring Gradle build scripts to automate various tasks like compiling, testing, and packaging.
* Ensure that all tests pass successfully before code is merged or deployed.
* After integrating and testing, monitor the Crashlytics dashboard in the Firebase Console.
* Participated actively in code reviews, offering constructive and integrating feedback into personal work.
* Wrote comprehensive unit test classes to achieve 100% code coverage, ensuring robustness and reliability.
* Employed SonarQube Code Quality Assurance tool to assess and enhance the code quality of the project.
* Engaged in scrum meetings, sprint planning, backlog refinements, and retrospectives to optimize project workflow.
* Addressed defects and completed user stories within designated sprint cycles, ensuring timely delivery.
* Contributed to the establishment of software development best practices, including coding standards, testing methodologies, and documentation protocols.

**Desk Nine Pvt Ltd - Signdesk, Bangalore, India Aug 2020 - Dec 2021**

**Role :**Senior Android Engineer  
**Project Description**: eSign is an online electronic signature service that can facilitate an Aadhaar holder to digitally sign a document. An Aadhaar holder can sign a document using Biometric/One Time Password authentication thus requiring no paper-based application form or documents.

It is Aadhaar-based online signature system where an applicant(s) can upload document(s) online which can be signed by one or more signers. However, having an Aadhaar Number and a mobile number registered with Aadhaar is necessary for availing this service.

* Integrated the NSDL third-party Android SDK for e-Signature functionality, enabling secure digital signing within the application.
* Designed user interface screens to accommodate various mobile resolutions using responsive design techniques and tools like Constraint Layout.
* Added new functionalities to existing applications using Java/Kotlin for Android and Angular for web platforms.
* Utilized the iText Java library for PDF document e-signature integration, ensuring secure and compliant digital signatures.
* Implemented Java servlet APIs to manage document signatures and document processing tasks, including compression to reduce size, validation of e-signatures, and detection of signature positions using libraries such as Apache PDFBox and iText.
* Addressed bugs and optimized application performance using profiling tools like Android Studio Profiler and Chrome DevTools.
* Set up Gradle configurations for running unit tests, UI tests, and integration tests as part of the build process.
* Conducted code reviews and collaborated with technical teams to resolve production issues using tools like GitHub, Bitbucket, and GitLab.
* Maintaining and updating Gradle scripts as the project evolves.
* Wrote clean, efficient, and maintainable code using version control tools like Git for proper documentation and management.
* Collaborated with developers, designers, and stakeholders using Agile methodologies and tools like Jira and Confluence to ensure timely delivery of high-quality products.

**Desk Nine Pvt Ltd - Signdesk, Bangalore, India Apr 2019 - Jul 2020**

**Role:** Software Engineer  
**Project Description:** KYC is used to authenticate the identity of the customer. To complete the regular KYC process, the physical presence of the customer at the Corporate/Bank premises is necessary. The process is highly time-consuming and involves a lot of paperwork. Customers must gather documents such as physical application forms, photocopies of identity proofs and address proofs of the customer. The process is a tedious task for both the bank and the customer. VCIP is a perfect solution for this tedious task. VCIP addresses the challenges posed by the regular process by digitalizing the entire process and reducing the paper trails. It uses an AI-based RBI-compliant Video KYC solution to give customers a smooth and expedient onboarding experience.

* Conducted research and development, successfully implementing video calling functionality using WebRTC.
* Established and maintained socket connections between peers using Socket.IO for real-time communication.
* Managed socket communication from the back end using Node.js and Express.js.
* Integrated third-party APIs to enhance Android applications with features like payment gateways (Razorpay) and location services (Google Maps API).
* Developed multi-language support in the application using Android's localization framework.
* Developed and utilized image processing and video recording libraries such as OpenCV and Media Recorder.
* Collaborated with cross-functional teams to ensure seamless back-end integration using tools like Swagger for API documentation.
* Implemented AES and RSA encryption for secure backend API calls using Android's Cryptography API’s.
* Worked with UX/UI designers to create engaging and user-friendly interfaces using Figma for design collaboration.
* Performed unit and integration testing using JUnit to ensure Android applications were error-free and met specifications.
* Configure Gradle build files (build.gradle.kts or build.gradle) to streamline build processes and manage dependencies.
* Participated in the design and planning process to optimize the application for performance, scalability, and security, using Agile methodologies and tools like Jira and Confluence.

**Desk Nine Pvt Ltd - Signdesk, Bangalore, India Aug 2018 – Mar 2019**

**Role:** Software Engineer  
**Project Description:** It is a secure sharable document which can be used by any Aadhaar number holder for offline verification of Identification. UIDAI has launched Aadhaar Paperless Offline e-KYC Verification to allow Aadhaar number holders to voluntarily use it for establishing their identity in various applications in paperless and electronic fashion, while still maintaining privacy, security and inclusion.

* Utilized a QR scanner library like ZXing to extract Aadhaar offline KYC details from QR codes.
* Used Google Vision API to detect eye blinks for improved user interaction and accessibility features.
* Designed and implemented UI/UX elements for Android applications using Material Design principles.
* Implemented extraction and parsing of password protected .ZIP files using libraries such as Zip4j
* Read and parsed data from XML files using Simple XML Serialization to handle structured data effectively.
* Using AWS Recognition API to compare faces to determine if they are the same person.
* Managed API communication from the back end using Node.js, Express.js and MongoDB.
* Manage source code versions and maintain repositories using Git.

**Desk Nine Pvt Ltd - Signdesk, Bangalore, India July 2017 – July 2018**

**Role:** Associate Software Engineer  
**Project Description:** Scanning the QR code from the mobile to retrieve the mandate details and capture the eMandate document, adjust the edges using cropping feature, finally converting the image into the black and white and upload it to the server.

* Developed image cropping functionality using third-party libraries to enhance user customization options.
* Integrated document scanning and image processing capabilities to streamline document management tasks.
* Developed a user login page with secure authentication mechanisms and intuitive UI for enhanced user experience.
* Integrated Camera API to capture documents and utilized a third-party library for image cropping and optimization.
* Used Glide library for loading the images and customizing them.
* Worked with Recycler Views for displaying the list.
* Implemented a security feature to restrict installation on rooted mobile devices.
* Crafted intuitive UI/UX elements to enhance user interaction and engagement.
* Diagnosed and resolved application issues to ensure smooth functionality.
* Manage source code versions and maintain repositories using Git.
* Collaborate with stakeholders to iterate on designs based on feedback.

**Education details:**

**Bachelor in computer Science Jun 2013 - May 2017**

Ramachandra College Of Engineering (JNTUK)