

Software Engineer, Android

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California State University, Fullerton, USA

Master of Science, Computer Science (Software Engineering Minor)

Aug 2016 - May 2020

Bachelor of Engineering, Computer Science

Carnot Technologies Private Limited, India | Senior Software Engineer (Android)

- Led adoption of **Model-View-ViewModel** architecture across 3 Native Android apps (Krish-e, Smart Kit, Takneek Plot), enabling faster feature rollout, reducing production bugs by 25%, and simplifying onboarding for new developers.
- Designed and deployed an **in-house SDK** featuring gamification elements, driving a 20% increase in in-app purchases and a 15% boost in customer retention through repeat recharges.
- Redesigned the app into a **multi-module project**, optimizing code structure, enhancing maintainability, and enabling faster, independent development and testing.
- Enhanced user experience and application resilience by implementing **offline-first** functionality. Also, refined data models for efficient local storage and synchronized data with a backend server using **WorkManager**, ensuring seamless operation even in low-connectivity environments.
- Integrated **Firebase, CleverTap, UXCam**, and other customer engagement and performance platforms to monitor user behavior, analyze segmentation, and deliver personalized user experiences, enhancing user satisfaction.
- Contributed to the app's overall success, helping it surpass **1 million downloads** on Google Play through architectural improvements and feature scalability.

- Proposed and led the **Integration of a third-party app** into our core product, expanding feature offerings under one roof and driving a 40% increase in user base.
- Used **Baseline Profiles** to shift performance-sensitive code from Just-In-Time (JIT) to Ahead-Of-Time (AOT) compilation, reducing app startup time by 27% and enhancing user experience.
- Implemented **Gradle Version Catalogs** to simplify and standardize dependency management across all projects, centralizing definitions for 20+ modules, ensuring consistent versioning, and enhancing scalability and developer efficiency.
- Migrated apps from **Java** to **Kotlin & RxJava** to **Coroutines**, resulting in cleaner, more concise, and idiomatic Kotlin code.

Jun 2020 - Jan 2021

- Engineered enterprise software solutions using **ERPNext** and the **Python-based Frappe framework**, contributing to feature development and backend enhancements.
- Improved system reliability and user satisfaction by performing rigorous testing, deploying updates efficiently, and resolving technical issues through ticket-based support.

JIN Reflexology, India | Software Developer

- Developed and deployed a **Native Android Application** for Jin Reflexology using **Java** and **PostgreSQL**, enabling scalable patient onboarding, appointment scheduling, and diagnosis management.
- Led the end-to-end delivery of the freelance project, handling UI/UX design, development, testing, and deployment with a focus on performance and user experience.
- Integrated **PayPal Payment SDK** to facilitate secure and seamless in-app transactions, enhancing the checkout process and boosting user convenience.

Feb 2020 - Mar 2020

- Developed a responsive **Progressive Web App (PWA)** yoga website using **React.js** to deliver a seamless, engaging user experience across devices and screen sizes.
- Implemented **offline functionality** to ensure content accessibility without an internet connection.

Language: Kotlin, Java, JavaScript, Python, SQL, GraphQL, NOSQL

Frameworks: React.js, Node.js, Express.js, Next.js, Gatsby.js, Gradle

IDEs / Tools: Android Studio, Visual Studio Code, IntelliJ Idea, Fleet, Figma, Jira, Confluence, Postman, Git

Database: MySQL, PostgreSQL, MongoDB, Room DB, Realm DB

Cloud Technologies: AWS, Google Cloud, Firebase, Firebase Analytics and Crashlytics

Software/Other Skills: Kotlin Coroutines, Jetpack Compose, Retrofit, Ktor, Dependency Injection, Dagger Hilt, Koin, RxJava, RxAndroid, LiveData, DataStore, Paging3, Navigation Component, Coil, ExoPlayer, LeakCanary, Asynchronous Programming, XML, JSON, REST APIs, SOLID Principles, Software Architecture, Software Development, Material Design, UI/UX Design, Wireframing, Prototyping, Scrum, Agile, Critical Thinking, Problem-solving, Technical Documentation, Communication Skills.

- **1st Rank in Smart India Hackathon:** Built a unified scholarship portal for AICTE problem statement.
- **2nd Rank in Microsoft Hackathon:** Built an Android app & big data platform for government schemes.
- **Google Cloud Computing Foundations Certificate:** Completed foundational certification
- **AWS Knowledge: Serverless Computing:** Completed training on serverless architecture