

Sandeep Manglaram

Senior Software Engineer

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Summary

Experienced **Android** and **Backend** Developer skilled in **Java**, **Kotlin** and **Spring Boot**, specializing in building scalable mobile apps and secure RESTful APIs with a focus on performance optimization and multi-device synchronization.

Technical Skills

Languages : Java, Kotlin, Python, SQL

Mobile Development: Android SDK, Retrofit, Data Binding, Room, LiveData, ViewModel, AIDL, Service, Coroutine, MVVM

Back-End Development: Spring Boot, Spring MVC, Spring Data, JPA, Hibernate, RESTful, Spring Security, Docker, AWS

Database: PostgreSQL, MySQL, Room, SQLite

Web & API: REST APIs, JSON, Postman, Web Sockets

Professional Experience

Samsung Research Institute, Bangalore.

Sr. Software Engineer | Nov 2022 – Present

Samsung Health [link](#)

- Developed the Samsung Health Android app using **Java/Kotlin**, building responsive UI interfaces optimized for **smartphones, tablets, foldables** and Samsung **DeX** mode.
- Implemented backend **REST** APIs using **Spring Boot**, managing health tracking features such as step count, sleep monitoring, workouts and medication tracking.
- Integrated **frontend** with **backend** services using **Retrofit** and **WebSockets** to enable real-time and deferred synchronization of health metrics like calories, heart rate, blood pressure and oxygen level.
- Engineered multi-device sync through secure APIs and background services, using an offline-first architecture supported by **Spring Data JPA** and **PostgreSQL**.
- Optimized** background threads to enhance app performance, reducing data load and UI response times by **8ms**.

Samsung Game Link: Extended Reality Head Mounted Display

- Developed a connectivity-focused Android application for a Head Mounted Display (VST) with SteamVR integration.
- Engineered & executed robust multi-mode connectivity including wired and wireless socket-based communication for data and command exchange between the Android(HMD) and Windows.
- Implemented data **encryption** using **RSA** and **AES** algorithms to ensure secure communication.
- Improved code reliability and test coverage using **JUnit** and **Mockito** and resolved crashes and memory leaks through **debugging** and **profiling**.

Infosys, Hyderabad.

Sr. System Engineer | Nov 2020 – Nov 2022

- Developed responsive Android app using Java/Kotlin for leave, WFH/WFO scheduling, cab booking, and meal card features.
- Built secure **Spring Boot** RESTful APIs, enabling **CRUD** operations for employee services and **JWT** authentication.
- Integrated frontend and backend using **okHttp** with **JSON** serialization and error handling for real-time updates.
- Modeled and persisted service data in **PostgreSQL** using **JPA** with optimized schema design.

Education

Walchand Institute of Technology, Solapur 2016 - 2020
Bachelor of Engineering, Computer Science GPA: 9.02/10

Languages

English, Hindi, Marathi, Telugu

Achievements

- Samsung Certified** Software Competency **Professional**.
- Infosys Certified** Software Programmer.
- Samsung Excellence Award** –Recognized for exceptional performance & innovation.
- Mentoring** Junior Developers for SWC Professional Certification Exam.
- Presenter** at **TechGlanz** 2025 Tech Event representing Game Link app.