Sandeep Manglaram

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Summary

Android and **Spring Boot** Developer specializing in building scalable mobile apps and backend REST API services with a focus on performance optimization and multi-device synchronization.

Technical Skills

Languages: Java, Kotlin, Python, SQL

Mobile Development: Android SDK, LiveData, ViewModel, AIDL, Service, Coroutines, MVVM, Hilt, Glide, Clean Architecture

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

Database: PostgreSQL, MySQL , Room, SQLite, MongoDB

Tools & API: JSON, JWT, Postman, Git, GitHub, Gerrit, CI/CD pipelines

Cloud: AWS, Docker, EC2, S3, RDS, Firebase

Unit Testing: JUnit, Espresso, Mockito

Experience

Sr. Software Engineer, Samsung Research Institute, Bangalore   Nov 2022 – Present

Samsung Health Play Store 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 GameLink

- 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 AndroidXR(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.

Software Engineer, Infosys, Hyderabad   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 Retrofit 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

Achievements

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

Languages

English | Hindi | Marathi | Telugu