

AYUSH JHA

Senior Software Engineer (Android / Systems)

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Software engineer with 5+ years of experience building scalable Android systems and applications in automotive environments. Strong in data structures, system design, and performance optimization, with hands-on experience in architecture design, code reviews, and mentoring. Proven track record of improving reliability, scalability, and engineering productivity. Currently leading GenAI-driven development and code quality initiatives.

SKILLS

- **Languages:** Kotlin, Java
- **Core CS:** Data Structures, Algorithms, System Design
- **Android:** Jetpack Compose, MVVM, Clean Architecture, AOSP
- **Systems:** IPC (Binder/AIDL), System Services, Distributed Components
- **Concurrency:** Coroutines, Flow, Multithreading
- **Data:** Room, REST APIs
- **Tools:** Git, Gradle, CI/CD, Junit, Espresso, Copilot

PROFESSIONAL EXPERIENCE

Software Engineer II | Harman International India Pvt Ltd | Bengaluru, India

Mar 2026 – Present

- Increased release velocity by 66% through CI/CD improvements and workflow automation.
- Leading architecture design discussions and proposed scalable solutions for legacy system improvements.
- Conducted code reviews to enforce best practices in performance, testability, and maintainability
- Mentoring junior engineers and onboarded new team members, improving team productivity
- Leading GenAI transformation, leveraging prompt engineering and AI-assisted code review to enhance development efficiency and code quality

Software Engineer I | Harman International India Pvt Ltd | Bengaluru, India

Mar 2023 – Feb 2026

- Improved application stability by 28% by debugging IPC, lifecycle, and system-level failures.
- Reduced memory usage by 20%, optimizing performance for low-resource environments.
- Designed modular feature engine supporting 15+ product variants, eliminating code duplication
- Applied MVVM + Clean Architecture to improve scalability and maintainability.
- Leveraged Coroutines & modularization for responsive and efficient apps

Associate Engineer | Harman International India Pvt Ltd | Bengaluru, India

Oct 2020 – Feb 2023

- Developed automated test suites (JUnit, Espresso), improving regression speed by 40%
- Increased test coverage, reducing production defects and improving reliability.

PERSONAL PROJECTS

Plant Care Companion App (Android) [<https://github.com/AJ-Dev-Labs/plant-care-tracker>]

- Built offline-first Android app using Compose, Room, WorkManager, and Coroutines.
- Designed scalable data layer with background scheduling and persistent storage.
- Implemented reminder system with efficient task execution and lifecycle handling.

NasSpectra (Android) [<https://github.com/AJ-Dev-Labs/NasSpectra>]

- Developed system monitoring app integrating REST APIs for real-time metrics.
- Designed modular architecture using dependency injection and clean separation of concerns.
- Implemented data visualization for system performance monitoring.

EDUCATION

Bachelor of Technology (B.Tech.) – Computer Science

Vellore Institute of Technology, Chennai – [2016-2020]