

Manoj Kumar V

Software Engineer – Android Platform & AI Automation

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PROFESSIONAL SUMMARY

Software Engineer with **2 years of experience** in **Android platform development, AOSP, OTA workflows**, and AI-driven automation for enterprise Android devices. Skilled in Python, Java, Kotlin, C/C++, LangGraph, OpenAI/Claude APIs, Jira API, ADB, and Android debugging. Built GenAI-based log analysis workflows that **reduced issue investigation time from 10–15 hours to 1–2 hours (~90% reduction)** across Android framework and component teams.

TECHNICAL SKILLS

Languages: Python, Java, Kotlin, C/C++, SQL, Shell Scripting

Android Platform: AOSP, Android Framework, Android Components, ADB, Android Recovery, OTA Updates, A/B Mode, Logcat, Bugreport Analysis, Kernel Logs, ANR/Crash Analysis

AI / Automation: Generative AI, Agentic AI, LangGraph, LangChain, Prompt Engineering, RAG, Vector Databases, OpenAI API, Claude API

Tools & Platforms: Git, Gerrit, GitHub, Jira, Jira API, REST APIs, Android Studio, Linux

Core Concepts: Root Cause Analysis, Debugging, Log Analysis, Automation, Issue Triage, OTA Validation, Enterprise Android Device Workflows

PROFESSIONAL EXPERIENCE

Associate Software Engineer – Tech Mahindra

Client: Zebra Technologies | Domain: Android Framework / Enterprise Android Devices | May 2024 – Present | Bangalore, India

- **Android Recovery LED Notification Support** – Designed and shipped a C/C++ LED-indication system for Android Recovery Mode, giving technicians a way to read OTA success/failure and recovery-state transitions on display-less enterprise devices, with full handling of update-failure and completion edge cases.
- **Serial Number-Based OTA Validation** – Designed and implemented configuration-driven serial number and device-property validation enforced across OTA, A/B mode, and recovery update flows, restricting OS updates to authorized customer devices and strengthening update governance.
- **AI-Powered Android Log Analysis Automation** – Built a GenAI-powered Android log analysis system (Python, LangGraph, OpenAI/Claude APIs, Jira API) automating chunking, regex parsing, keyword filtering, and summarization across logcat, bugreports, kernel logs, tombstones, ANR/crash, battery, audio, and NFC logs averaging 200MB per file.
- Designed multi-node LangGraph agentic workflows – log summarizer, RCA agent, error classifier, Jira analyzer, similar-issue finder, and report generator – using state management, memory, and conditional routing to automate end-to-end troubleshooting.
- Integrated Jira APIs to analyze **250+** existing and new issues: generating summaries, classifying errors, suggesting fixes, detecting duplicates, and drafting Jira-ready comments.
- **Cut issue investigation time from 10–15 hours to 1–2 hours (~90% reduction)**, directly accelerating root-cause analysis across teams.
- Partnered with Framework, Audio, Battery, NFC, and Stability teams to fold the tool into daily triage, reducing manual log reading and speeding defect resolution.

EDUCATION

Master of Computer Applications (MCA) – Reva University, Bangalore | 2023

Bachelor of Computer Applications (BCA) – Bengaluru City University, Bangalore | 2021

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900) | 2023

AI White Belt L1 V1 – Tech Mahindra | 2025