Umesh Raj

Technical Architect & AI-First Engineer

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9+	10+	3M+	8+	3
Years engineering	Apps shipped	Users impacted	Engineers led	Core domains

PROFESSIONAL SUMMARY

Technical Architect and full-stack engineer with 9+ years of experience across mobile (Flutter/Android), backend (Java/Spring Boot), and AI systems. Built and shipped production applications serving 3M+ users. Led cross-functional engineering teams of 8+, shaped technical roadmaps, and embedded AI tooling into development workflows. Strong track record of owning product-critical systems end-to-end — from architecture through delivery — with focus on quality, velocity, and long-term craft.

WORK EXPERIENCE

Athma Health Pvt Ltd. (Narayana Health)

Nov 2021 — Present

Technical Lead

India (Hybrid)

- Defined and enforced technical architecture across mobile (Flutter) and backend domains for a **1M+ user** healthcare platform
- Led a team of **8+ engineers** across mobile, API, and platform streams; built review culture and CI/CD workflows
- Collaborated directly with product management to shape roadmap and technical trade-offs
- Mentored mid-level and senior engineers on architecture, patterns, and execution quality
- **Reduced release cycle time by 40%** through automated QA and deployment pipelines
- Introduced AI-assisted tooling that **accelerated feature velocity by 30%**
- Architected a modular Flutter codebase handling **1M+ active users**; improved App Store rating from 3.8 → 4.5

Flutter | Dart | Java | Spring Boot | PostgreSQL | Redis | GCP | Docker | CI/CD

UIPEP Technologies Pvt Ltd.

Dec 2019 — Nov 2021

Flutter Developer

Bangalore, India

- Built and shipped Flutter/Android features from design to production; participated in architecture and system design sessions
- Delivered a rewrite of the core checkout flow that **increased conversion by 18%**
- Built an **offline-first sync engine** that worked reliably across poor network conditions
- Refactored legacy codebase to reduce **crash rate to under 0.1%**
- Conducted technical interviews and onboarded new team members

Flutter | Dart | Android | Spring Boot | Firebase | Node.js

Data Diversity Technologies Pvt Ltd.

Dec 2016 — Nov 2019

Android Developer

Bangalore, India

- Built Android UI screens and features in a health-tech environment; grew to owning full screens end-to-end within first year
- Independently shipped a push notification module that **improved user re-engagement by 25%**
- Migrated legacy Activities to cleaner architecture, **reducing boilerplate by 35%**

Android | Java | SQLite | Firebase | REST APIs | Git

SKILLS

Mobile
Flutter · Dart · Android · iOS

Backend
Java · Spring Boot · REST APIs · Node.js · GraphQL · gRPC

AI & Automation
LLM Integration · AI Agents · Prompt Engineering · AI Workflows · LangChain

Data & Infrastructure
PostgreSQL · MySQL · Redis · Firebase · Docker · GCP · AWS

Web
Next.js · TypeScript · HTML · Flutter Web

Architecture & Leadership
System Design · Technical Architecture · Team Leadership · Engineering Mentorship · Agile/Scrum

KEY PROJECTS

NH Care — Narayana Health
Technical Lead
Flagship cross-platform healthcare app (iOS & Android) serving 1M+ active users with appointment booking, health records, and telemedicine.
⬆ App Store rating 3.8 → 4.5 · crash rate <0.1% · 40+ features shipped
Flutter | Dart | Bloc | Spring Boot | PostgreSQL | GCP

NH Care Kiosk — Narayana Health
Flutter Developer
Self-service kiosk deployed across hospital facilities. Patients book, pay, and check in independently using Face ID — no front-desk needed.
⬆ ₹20Cr+ monthly revenue processed · reduced front-desk queues significantly
Flutter | Face ID | Payment Gateway | Spring Boot

King's College Hospital – Jeddah
Technical Lead
Cross-platform appointment booking app for 20+ medical specialties serving patients across Saudi Arabia.
Live on App Store & Play Store · seamless same-day booking across specialties
Flutter | Dart | Bloc | REST APIs | PostgreSQL

ICU Patient Monitoring Dashboard
Flutter Developer
Real-time clinical dashboard for ICU teams — vitals, lab reports, ventilation parameters, and trend charts for critical patient care.
Reduced time-to-insight for ICU teams · improved clinical decision speed
Flutter | WebSockets | Charts | GetX | Spring Boot

EDUCATION

Master of Computer Applications (MCA)
Manipal University Jaipur
2021 – 2023 · 7.7 CGPA · First Class with Distinction
Advanced Software Engineering, Cloud Computing

Bachelor of Computer Applications (BCA)
National College Basavanagudi, Bangalore
2013 – 2016 · First Class
CS fundamentals, Database Management, Web Technologies

Pre-University Course — Science
State Board of Karnataka, Bangalore
2011 – 2013 · First Class
Computer Science · Mathematics · Physics

CERTIFICATIONS

Android Developer Program
Google Developers · Android Development

Python Development
Udemy · Python Programming