

Avinash Ranjan

Senior Mobile & Frontend Engineer

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Summary

Seasoned Mobile Developer and Architect with 12+ years of experience delivering scalable, secure, and user-focused Android and cross-platform applications.

Expert in Kotlin, Flutter, and architectural design patterns like MVVM, MVI, and Clean Architecture with backend and automation expertise.

Projects

School App (NDA – dummy name)

Remote / Contract
Nov 2025 – Dec 2025

Cross-platform school management app for parents, staff, and administrators enabling attendance tracking, announcements, and communication dashboards.

- Designed modular architecture with role-based access for parents, teachers, and admin users.
- Integrated Node.js + Express backend for real-time attendance, student data, and notifications.
- Added CarPlay, Android Auto, and Apple Watch extensions to extend communication and alerts across connected devices.
- Delivered within 2 months for pilot rollout to private schools in NCR.

OneStopCalculators

Remote

Dec 2025 – present

High-performance, SEO-focused calculator platform optimized for Firebase Hosting.

- Built static crawl-friendly pages with structured linking.
- Optimized for AdSense eligibility and Search Console indexing.
- Deployed on Firebase Hosting with CDN edge caching.

Continuous GPS Tracker

Freelance

Jan 2025 – present

Session-based GPS tracking system with offline persistence and LLM-driven insights.

- Built resilient background tracking with power-aware sampling.
- Synced data offline/online with conflict handling via Node/Express backend.

Trainer Tracker (Backend)

Remote

Sept 2024 – present

Backend for Trainer Tracker app built with Node.js and Express, deployed on AWS with

MongoDB for persistence.

- Implemented RESTful APIs in Node.js and Express for user/session management, analytics, and notifications.
- Designed scalable data models and indexing strategies in MongoDB for high-throughput telemetry.
- Deployed services on AWS (EC2/ECS, S3, CloudWatch) and configured CI/CD for zero-downtime releases.
- Implemented authentication, rate-limiting, and monitoring to maintain reliability under load.

Maya Bank Flutter SDK & Input Credit Loan

Maya Bank (Fintech)

Jan 2025 – June 2025

Modular Flutter SDK and loan module aligned with fintech compliance.

- Developed reusable Flutter SDK components for digital banking.
- Implemented secure API flows for credit loan processing.

Medtronic Clinician Tablet Clinician tablet software for programming implantable medical devices. <ul style="list-style-type: none">• Built BLE/USB interfaces to configure and interrogate implantable devices.• Ensured compliance with healthcare-grade reliability standards.	Medtronic (Healthcare) Jan 2019 – Dec 2025
T-Mobile Diagnostic App System-level diagnostic app preloaded on Samsung devices. <ul style="list-style-type: none">• Implemented device health analytics and remote fixes via push/SMS.• Deployed as OEM-level system software.	T-Mobile OEM Jan 2018 – Dec 2019
Equinox Fitness Fitness app enabling booking and scheduling with cross-platform parity. <ul style="list-style-type: none">• Developed booking and scheduling features using TDD.• Supported deployments in USA, UK, and Canada.	Equinox Jan 2017 – Dec 2018
Kotak Banking Suite Mobile and tablet apps for salary onboarding and investment management. <ul style="list-style-type: none">• Built and maintained Unicorn, BMS, and LMS apps with offline sync.	Kotak Bank Jan 2016 – Dec 2017
Voice Assistant & NLP Native C++ voice assistant for wake-word detection and speech amplification. <ul style="list-style-type: none">• Designed native audio pipeline and integrated NLP for transcription.	R&D Jan 2015 – Dec 2016
Car Scanner via OBD-II Vehicle diagnostics app interfacing with OBD-II over Wi-Fi/Bluetooth. <ul style="list-style-type: none">• Linked Android devices with car ECUs for real-time insights.	Internal Jan 2015 – Dec 2015
T-Mobile Recommendation Engine ML-based product recommendation engine for web and mobile. <ul style="list-style-type: none">• Built recommendation model using sentiment and purchase data.	T-Mobile Jan 2014 – Dec 2015
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Experience	
Freelance / Contract, Senior Mobile & Frontend Engineer Delivering contract builds across Android, Flutter, and React Native with backend integration; architecture guidance and CI/CD. <ul style="list-style-type: none">• Delivered full-stack mobile builds using Android, Flutter, and React Native.• Provided architecture consulting, performance tuning, and SEO-optimized web deliverables.• Implemented CI/CD pipelines and maintained production readiness across projects.	Remote / Multiple Clients Sept 2025 – present 4 months
Mindmap Infotech Pvt. Ltd., Senior Developer Built scalable Flutter applications for digital banking services and internal SDK development. <ul style="list-style-type: none">• Delivered secure Flutter banking apps with compliance-ready modules.• Developed internal SDKs and reusable widgets for cross-team acceleration.• Integrated platform channels to Android/iOS for native-level performance.	Greater Noida, UP, India Feb 2025 – Sept 2025 8 months
MCP / Automation (R&D), Automation & MCP Platform Engineer Designed and developed an MCP server with automation for policy-based code review and testing. <ul style="list-style-type: none">• Built MCP server with Windsurf Auth and automated Appium test triggers.• Implemented cross-platform execution for CI/CD integration.• Automated pre-merge validation through Gherkin test detection.	Remote Jan 2025 – Dec 2025 1 year

GlobalLogic India Pvt. Ltd. , Senior Lead Engineer	Nagpur, MH, India
Led healthcare Android/KMM programs using modern architectures, profiling, and CI-driven quality gates.	June 2019 – Feb 2025 5 years 9 months
<ul style="list-style-type: none"> Directed healthcare product development using MVVM and UML system design. Enhanced app performance through profiling and memory leak detection. Authored technical and functional documentation; conducted design/code reviews. 	
Prokarma Softech Pvt. Ltd. , Senior Software Engineer	Hyderabad, TS, India
Delivered Android and ML automation features while managing team sprints and technical discussions.	Mar 2018 – Nov 2018 9 months
<ul style="list-style-type: none"> Planned sprints, distributed stories, and led technical sessions. Built Android features in Kotlin/Java and ML utilities in Python. Automated UI testing using Espresso and ADB. 	
3 Pillar Global Pvt. Ltd. , Software Engineer II	Noida, UP, India
Delivered Android and React Native apps with CI/CD automation.	Nov 2016 – Feb 2018 1 year 4 months
<ul style="list-style-type: none"> Built Android apps and cross-platform POCs using React Native. Managed Jenkins CI/CD automation for Play Store deployment. Conducted code reviews and ensured delivery quality. 	
Async Technology , Software Engineer	Bokaro, JH, India
Developed core Android frameworks, offline sync libraries, and APK analysis tools.	Jan 2013 – Oct 2016 3 years 10 months
<ul style="list-style-type: none"> Customized AOSP for enterprise apps and device replication. Created offline sync libraries for banking solutions. Analyzed APKs using DexJar and SMALI for security and optimization. 	

Awards and Recognition

Excellence Award	2023
Recognized for outstanding development and mentorship contributions in enterprise healthcare apps.	
Avinash Ranjan	
Smart Risk Taker Award	2017
Honored for delivering key Equinox Fitness features with zero production defects under tight deadlines.	
Avinash Ranjan	
Technical Session Lead	2018
Conducted 5 internal sessions on AR, VR, and Machine Learning, mentoring engineers and leading PoCs for UPRR and AT&T.	
Avinash Ranjan	

Education

Bach- V.B.P.U, Varanasi , Computer Science	Varanasi, UP, India
elor of Strong foundation in computer science with focus on algorithms, data structures, and	2007 – 2010
Com- early mobile development.	
puter	
Appli-	
cation	

Skills

Languages: Kotlin, Java, Dart, JavaScript, TypeScript

Frameworks: Jetpack Compose, Flutter, React Native, Next.js, Express

Backend: Node.js, Express, AWS (EC2/ECS/S3/CloudWatch), MongoDB

Integrations: CarPlay, Android Auto, Apple Watch Extensions (React Native)

DevOps & Tools: Jenkins, GitLab CI, Firebase Hosting, CI/CD pipelines, JIRA, Confluence

Architecture & Patterns: MVVM, MVI, Clean Architecture, SOLID, Design Patterns (Creational, Structural, Behavioral)