

Avinash Ranjan

Senior Mobile & Frontend Engineer

📍 Greater Noida, UP, India
 ✉️ avinash.ranjan21@gmail.com
 ☎️ 088263 99142
 🌐 avinashpandey.online
 🔗 avinashranjan
 🔄 Avinashranjan21

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)

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.

Remote / Contract
Nov 2025 – Dec 2025

OneStopCalculators

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.

Remote
Dec 2025 – present

Continuous GPS Tracker

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.

Freelance
Jan 2025 – present

Trainer Tracker (Backend)

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.

Remote
Sept 2024 – present

Maya Bank Flutter SDK & Input Credit Loan

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.

Maya Bank (Fintech)
Jan 2025 – June 2025

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

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

Led healthcare Android/KMM programs using modern architectures, profiling, and CI-driven quality gates.

- 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.

Nagpur, MH, India

June 2019 – Feb 2025

5 years 9 months

Prokarma Softech Pvt. Ltd., Senior Software Engineer

Delivered Android and ML automation features while managing team sprints and technical discussions.

- 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.

Hyderabad, TS, India

Mar 2018 – Nov 2018

9 months

3 Pillar Global Pvt. Ltd., Software Engineer II

Delivered Android and React Native apps with CI/CD automation.

- 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.

Noida, UP, India

Nov 2016 – Feb 2018

1 year 4 months

Async Technology, Software Engineer

Developed core Android frameworks, offline sync libraries, and APK analysis tools.

- 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.

Bokaro, JH, India

Jan 2013 – Oct 2016

3 years 10 months

Awards and Recognition

Excellence Award

2023

Recognized for outstanding development and mentorship contributions in enterprise health-care 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

Bachelor of Computer Science, V.B.P.U., Varanasi

Varanasi, UP, India

Strong foundation in computer science with focus on algorithms, data structures, and early mobile development.

2007 – 2010

Computer**Application****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)