

VIKASH KUMAR

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PROFESSIONAL SUMMARY

Senior platform engineer with 6+ years building high-scale mobile products and a full-stack B2B SaaS platform spanning 3 Flutter apps, 3 React dashboards, and an AWS serverless backend. Expert in system design—from HMAC rotating-QR security models and multi-tenant PostgreSQL to FCM push, Universal Links, and SQS async pipelines. Combines deep Flutter/Android craft with cloud architecture and AI-augmented engineering (agentic IDE workflows, LLM-ready technical specs) to ship complex products faster.

TECHNICAL SKILLS

Languages: Kotlin, Java, Dart, JavaScript/TypeScript, Python, SQL, C++

Mobile: Flutter, Android SDK, Jetpack Compose, FCM (multi-project), Universal/App Links, `mobile_scanner`, Provider, Room DB

Web: React 18, Vite, TypeScript, React Router, SPA routing, AWS Amplify deploy

Backend & APIs: Node.js, Express, REST (~82 endpoints), custom JWT auth, bcrypt, PostgreSQL, idempotent SQL migrations

Cloud & Serverless: AWS SAM, Lambda, API Gateway, SQS+DLQ, S3, RDS (VPC), SES, Docker Compose

Architecture & Design: Multi-tenant SaaS, event-driven notifications, TOTP-style HMAC tokens, release-schedule resolution, MVVM/Clean Architecture, HLD/LLD docs (Mermaid, sequence diagrams)

DevOps & Quality: Codemagic CI/CD, Python deploy scripts, GitHub Actions, unit/integration testing, 100-check smoke suites

AI-Augmented Engineering: Cursor/agentic coding, LLM-ready architecture docs, prompt-driven conceptual → technical design

PROFESSIONAL EXPERIENCE

Lab Upstairs Software Solutions LLP (HOGR)

June 2023 – Present

Lead Software Engineer

Remote

- Architected and built a 7-surface multi-tenant campus operations platform (3 Flutter apps, 3 React/Vite dashboards, AWS serverless API) with live rotating QR identity verification and on-site staff face-match; authored 1,000+ lines of architecture specs for team and LLM onboarding
- Implemented TOTP-style HMAC rotating QR passes (15s epoch, byte-identical Node/Dart) with 9-step online validation, replay nonces, and multi-tenant `school_id` isolation across 22 PostgreSQL tables
- Designed ~82 REST endpoints on AWS SAM (Lambda + API Gateway + SQS notify worker + RDS VPC); custom JWT (stateless access + revocable refresh), role-based auth for 5 personas without Cognito
- Modeled 4-color pass authorization with hierarchical release schedules (date → weekly → school default; division → class → school scope), per-child one-time consumption, and off-hours audit flows—verified by 100-check integration suite
- Shipped 3 role-specific Flutter apps with Figma-faithful design system (oklch→sRGB, bundled Geist fonts), FCM push across 3 Firebase projects, unified `NavigationCoordinator` for push taps and Universal Links
- Built tenant admin + fleet operations React SPAs with deep-linkable routing, actionable incident management, schedule tooling, and CSV roster onboarding wizard
- Established Codemagic mobile CI, Python SAM/Amplify deploy pipelines, Dockerized local Postgres, and idempotent migration workflow; accelerated delivery via AI-augmented development and LLM-ready platform specifications

HOGR Food Network (CureFoods)

June 2023 – Present

Senior Mobile Developer

Bangalore, India (Remote)

- Architected and launched Flutter-based social food discovery platform serving 50K+ DAU with restaurant ordering, multimedia reviews, and social engagement features, increasing user retention by 30% through optimized state management and custom caching strategies
- Engineered secure, PCI-compliant payment infrastructure handling 10,000+ daily transactions with 99.8% success rate using Razorpay and Stripe integration, implementing retry logic and comprehensive error handling
- Optimized multimedia review system performance by 45% through efficient video compression, lazy loading with ExoPlayer, and image caching with LRU strategy, reducing CDN bandwidth costs by 25%
- Reduced API call volume by 35% through intelligent client-side caching, request batching, and pagination strategies, improving app responsiveness and reducing backend infrastructure costs

- Mentored 3 junior developers on Flutter best practices, code review standards, and testing methodologies, establishing team-wide coding guidelines and automated CI/CD pipelines that reduced deployment time by 60%

Masalabox Food Network (CureFoods)

February 2022 – June 2023

Android Developer / Senior Mobile Developer

Bangalore, India (Remote)

- Delivered two production Flutter apps from concept to launch in 6 months (40% faster than estimated), including chef-centric e-commerce platform with inventory management and social discovery app with 20K+ active users
- Built real-time social feed with Firebase integration supporting text, image, and video posts with 500ms average load time, implementing efficient pagination and background sync for offline-first architecture
- Optimized Google Maps integration reducing battery consumption by 25% through geofencing, location batching, and background service optimization while maintaining accurate real-time tracking for delivery features
- Improved app stability from 3.2% to 0.7% crash rate through comprehensive error handling, crash analytics with Firebase Crashlytics, and proactive bug fixes based on user behavior analysis

Freelance Android Developer

February 2019 – January 2022

Airlib Apps & Various Clients

Remote

- Developed feature-rich media player applications with offline-first architecture, background playback, and custom ExoPlayer integration serving 15K+ users with 4.5+ star rating on Play Store
- Built scalable REST APIs using Node.js and Express with JWT authentication, reducing response times by 50% through database query optimization, Redis caching, and connection pooling
- Increased user registration conversion by 28% by implementing social login integration (Google, Facebook) and streamlining onboarding flow based on user analytics and A/B testing results

SELECTED PROJECTS

Flute Music Player (Open Source) | *Flutter, Audio Plugins, Custom UI*

2020 – 2021

- Contributed advanced playback features including equalizer, custom animations, and playlist management to open-source Flutter music app with 2K+ GitHub stars
- Designed responsive UI with custom animations and gesture controls, improving user engagement metrics by 22% based on contributor feedback and analytics

Deep Link & Push Infrastructure | *FCM, Universal Links, AASA, App Links*

2025 – 2026

- Built cross-app push and deep-link navigation: 3 Firebase projects, AASA/assetlinks deliverables, and a unified `NavigationCoordinator` routing FCM taps and App Links to auth-gated screens with pending-intent queue on cold start

EDUCATION

Sinhgad Institute of Technology & Science

2015 – 2019

Bachelor of Engineering in Computer Science

Pune, India

CERTIFICATIONS & ACHIEVEMENTS

Google Associate Android Developer | HackerRank 5-Star (Java & C++) | LeetCode 2-Star