

Hrithik Mishra

Mobile Software Engineer | Flutter & Dart | Full-Stack Product Engineering

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PROFESSIONAL SUMMARY

Mobile/software engineer with 4+ years of professional engineering experience building and supporting production Flutter/Dart applications for Android and iOS. Strong in maintainable modular architecture, Clean Architecture, Riverpod/BLoC state management, REST APIs, real-time communication, performance optimization, and mobile release workflows. Broadened into backend, cloud, product ownership, and AI engineering, including LLM-assisted development and LangChain agent guardrails for deterministic, domain-constrained workflows.

TECHNICAL SKILLS

Mobile Engineering: Flutter, Dart, Android, iOS, cross-platform application development, production support, performance optimization

Architecture & State Management: Clean Architecture, modular architecture, Riverpod 3.0, BLoC, GetX, Stacked, MVC, MVVM

APIs & Real-Time: RESTful APIs, WebSockets, Stream SDK, Firebase, authentication, third-party service integrations

Data & Performance: Drift local database, local persistence, caching, Firebase Firestore, API-call optimization

Backend & Cloud: Python FastAPI, Node.js, Docker, Kubernetes, DigitalOcean, GCP

AI-Assisted Engineering: LLM-assisted code generation, prompt engineering, agentic development workflows, reusable agent skills, hooks and rules

AI Agents & Guardrails: LangChain, AST-based deterministic SQL generation, SOP/playbook constraints, hard execution boundaries, structured contextual grounding and domain definitions

Engineering Workflow: Git-based workflows, mobile CI/CD/release workflows, App Store and Google Play deployment, Xcode, Android Studio

PROFESSIONAL EXPERIENCE

Software Engineer | Torana Enterprises Pvt Ltd | Aug 2024 - Present

Product: TheBlock | Nagpur, Maharashtra

- Architected and maintained a production Flutter application for Android and iOS using Clean Architecture, Riverpod 3.0, modular feature boundaries, REST APIs, and reusable application services.
- Implemented and stabilized peer-to-peer and group audio/video calling with screen sharing and media compression; migrated calling from Agora to Stream SDK to improve SDK consistency and reduce application footprint.
- Built an in-house client-side media-processing solution to replace a discontinued FFmpeg dependency, restoring reliable media compression/manipulation and removing recurring development blockers.
- Improved production reliability and code health by resolving 200-300 defects and eliminating 50+ technical-debt bottlenecks across performance, media, authentication, and core product workflows.
- Optimized data access with Drift-based local storage and caching to reduce redundant API calls and improve responsiveness in frequently accessed application flows.
- Delivered AI-enhanced product experiences including an end-to-end AI Email Agent, chatbot interfaces, guided application experiences, and backend integrations.
- Built LangChain-based AI agents with application-level guardrails, including deterministic AST-based SQL generation, SOP/playbook-driven behavior, hard operational boundaries, and structured business-domain context to reduce hallucination risk.
- Expanded into full-stack and platform ownership through FastAPI, WebSockets, backend APIs, Docker/DigitalOcean deployments, Kubernetes, authentication/security work, Doppler secret rotation, and third-party integrations.
- Took end-to-end product and team ownership for approximately two months, coordinating priorities while managing mobile releases, deployments, integrations, reliability work, and production continuity.

Flutter Developer | Cropdata Technology | Apr 2023 - Aug 2024

Nagpur, Maharashtra

- Served as the primary point of contact for Flutter initiatives, supporting architecture decisions and delivery across production mobile features.
- Championed BLoC and Clean Architecture to improve modularity, maintainability, and scalability; delivered authentication, payments, downloads, and Google Maps polygon-area calculations.

Flutter Team Lead | KodeKrew Technologies | Sep 2022 - Apr 2023

Delhi, India

- Led a two-developer Flutter team delivering applications across news, astrology, and instant-delivery domains.
- Implemented live streaming, Places search, order management, live location tracking, and Firebase Cloud Messaging using Flutter, Dart, Firebase, and REST APIs.

Flutter Developer | World of Wealth | Feb 2022 - Sep 2022

Pune, Maharashtra

- Led development of a fintech mobile application from concept to MVP for investment rounds, combining Flutter delivery with product and stakeholder coordination.
- Supported product positioning at Global Fintech Fest 2022 after the organization secured Silver Member status.

Freelance App Developer | Independent | Dec 2021 - May 2022

Nagpur, Maharashtra

- Built a three-app food-delivery solution covering customer, restaurant, and admin workflows using Flutter, Dart, and Firebase.
- Developed Cricwin Live Guru, a real-time cricket score application using Flutter, Firebase Remote Config, REST APIs, and AdMob; reached 25K+ Google Play installs.

EDUCATION

Bachelor of Engineering, Computer Engineering | St. Vincent Pallotti College of Engineering and Technology | 2022

First Class Distinction; 9.7 GPA in final semester

Diploma, Computer Organisation | Anjuman Polytechnic | 2019

80/100 final-year score

ADDITIONAL

Open-source volunteer contributor: Medito Foundation | Languages: English, Hindi, Marathi