

ROSHAN SAH

Senior Flutter Developer | Cross-Platform Mobile & Full-Stack Engineer

Senior Flutter Developer at Cubit Inc. · 4+ years experience · Kathmandu, Nepal

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roshansah.com.np | linkedin.com/in/roshansah729 | github.com/RoshanOscarSah | pub.dev/packages/flutter_virtual_tryon

PROFESSIONAL SUMMARY

Flutter developer with 4+ years of experience building and shipping cross-platform mobile applications for iOS and Android. Has independently published applications to the Apple App Store and Google Play Store, plus an open-source Flutter package on pub.dev, owning every stage from UI/UX design through backend architecture, native platform integration, and store release management. Works beyond the Dart layer where a product requires it — native Swift for CoreBluetooth and BLE protocol work, on-device machine learning for computer vision, and Node.js services for API and payment infrastructure. MSc in IT & Applied Security.

PUBLISHED APPLICATIONS & OPEN SOURCE

Designed, built, and published to the App Store and Google Play. Full case studies and store links at roshansah.com.np.

- **DashNav** — Flutter + native Swift, iOS. Turn-by-turn navigation mirrored live onto a KTM motorcycle's Gen3 TFT dashboard over Bluetooth. Reverse engineered the proprietary KTM BCCU BLE protocol and reimplemented it in Swift — challenge/response handshake, AES-128-CBC encryption, SHA-512 session key derivation — verified byte for byte on real hardware. Built an offline first navigation engine in pure Dart with automatic rerouting, plus WidgetKit widgets, Live Activities, and Siri integration. roshansah.com.np/project/dashnav
- **Kalo Chasma** — Flutter (iOS, Android, Web, macOS) + Firebase. Sole developer of a multi-platform eyewear commerce and services product spanning 25 feature modules. Built the complete Firebase backend with 20+ Cloud Functions, six user roles with role based access control (RBAC), and dual payment integration (eSewa and Stripe) with signature verified webhooks. roshansah.com.np/project/kalo-chasma
- **flutter_virtual_tryon** — Open-source Flutter package, pub.dev, MIT. Sole author and maintainer of a cross-platform face tracking and overlay engine. Unifies Google ML Kit (Android/iOS) and MediaPipe (web) behind one frozen public API. Shipped seven releases (current v0.3.1) with 145 tests at 83%+ coverage, scoring 160 pub points on pub.dev; powers Kalo Chasma's live try-on feature in production. roshansah.com.np/project/flutter-virtual-tryon-pub-package
- **PDF Tool** — Flutter — iOS, Android, Web, macOS. Offline, privacy-first PDF suite bundling 20+ utilities including merge, split, compress, OCR, redact, sign, watermark, and password protect. All processing runs on-device with no backend, signup, ads, or analytics. Built a centralized background task runner with a persistent, exportable task log for CPU-intensive operations. roshansah.com.np/project/pdf-tool
- **NOC Prices** — Flutter — iOS, Android, Web. Daily fuel price tracker for Nepal Oil Corporation rates. Real-time petrol, diesel, and gas prices with historical trend comparison, instant push notifications on price changes, and offline access to last known data. roshansah.com.np/project/noc-prices
- **Cylin** — Flutter — iOS & Android. Gas cylinder ordering and delivery platform serving both customers and operators. Built OTP phone authentication, order tracking, delivery scheduling, online and cash-on-delivery payments, Google Maps location detection, and an operator dashboard for order and price management. English and Nepali localisation. roshansah.com.np/project/cylin
- **Hariyo Naksha** — Flutter — iOS & Android. Interactive travel tracker for Nepal's 77 districts. Implemented custom SVG district rendering with CustomPaint, precise hit testing, and gesture-driven pan and zoom via InteractiveViewer — no third-party map SDK. Offline-first with achievement tracking and high-resolution export for sharing. roshansah.com.np/project/hariyo-naksha
- **Nepal SMS** — Flutter — iOS & Android. SMS application for sending messages to Nepali numbers over the internet. Integrated in-app purchase credit packages across StoreKit and Google Play Billing, Google and Apple Sign-In, and an emergency SMS feature with location attachment. roshansah.com.np/project/nepal-sms

TECHNICAL SKILLS

Mobile Development: Flutter, Dart, BLoC/Cubit, HydratedBloc, Riverpod, Provider, Clean Architecture, MVVM, go_router, Platform Channels, CustomPainter, Build Flavors, Unit & Widget Testing, App Store Connect, Google Play Console

Native iOS: Swift, CoreBluetooth (BLE), CoreLocation, WidgetKit, ActivityKit (Live Activities), App Intents (Siri & Shortcuts), Privacy Manifests

On-Device ML & Computer Vision: Google ML Kit (Face Detection), MediaPipe Face Landmarker, real-time camera stream processing, coordinate space geometry

Backend & Cloud: Firebase (Authentication, Cloud Firestore, Cloud Storage, Cloud Functions, Crashlytics, Remote Config), Node.js, Express, TypeScript, REST API design & integration, Dio, JWT Authentication, RBAC, Webhooks

Security & Protocols: AES-128-CBC, SHA-512 key derivation, BLE protocol reverse engineering, signature verified payment webhooks, secure API key handling

Databases: Cloud Firestore, PostgreSQL, MySQL, SQLite, Hive
Payments: eSewa, Stripe, StoreKit & Google Play Billing in-app purchases
Tools & Practices: Git, GitHub Actions, CI/CD, Agile/Scrum, Test-Driven Development, Semantic Versioning, Figma, Adobe XD, Jira
Also Works With: Kotlin, JavaScript, TypeScript, Python, React, Next.js, SQL
Languages: English (Professional), Nepali (Native), Hindi (Fluent), Maithili (Native)

PROFESSIONAL EXPERIENCE

- Senior Flutter Developer | Cubit Inc. (Nepal branch of an Australian technology company)

Oct 2023 – Present

 - Own mobile architecture and end-to-end delivery for client applications, from technical design through App Store and Play Store release.
 - Lead mobile developer on Akuna Tec, an Australian allied-health practice management platform for physiotherapists, exercise physiologists, and strength & conditioning coaches. Built the Flutter application for both clinician and client audiences against team-provided backend APIs — appointment booking and rescheduling, in-app payments, interactive exercise programme delivery with progression tracking, client health history and session notes, visual progress reporting, and cross-clinic team collaboration. Published to the App Store and Google Play.
 - Develop and maintain cross-platform Flutter applications for international clients across healthcare, government, meteorology, and events sectors, delivering to iOS and Android from a single Dart codebase.
 - Delivered Va'aitau o Samoa, a national fisheries and maritime application for the Government of Samoa, published on the Apple App Store.
 - Built VMGD, the official weather and disaster-alert application for the Vanuatu Meteorology & Geo-Hazards Department, handling real-time alert delivery via push notifications.
 - Developed TCMF 2025, a conference companion application with session scheduling, attendee tools, and offline-capable data caching.
 - Integrate REST APIs and Firebase services, implement state management with BLoC and Riverpod, and apply clean architecture patterns for long-term maintainability.
 - Collaborate with designers, QA, and backend teams across time zones throughout the full software development lifecycle.
- Senior Flutter Developer | ITNovus Pvt. Ltd.

Mar 2022 – Oct 2023

 - Led cross-platform Flutter development for multiple client applications, taking projects from UI/UX design through App Store and Play Store publication.
 - Designed and built PartPurja, a complete vehicle care and services platform, published to both stores with multiple post-launch feature releases.
 - Developed Ask Nepal, a national information and Q&A application, from initial design through public release.
 - Integrated REST APIs, authentication flows, and third-party SDKs; established reusable project architecture and shared component libraries across client projects.
 - Mentored junior developers on Flutter best practices, state management, and release processes.
- Earlier Experience | Design & Web Development

Mar 2021 – Mar 2022

 - UI/UX Designer at Techcare Softwares and Research Center; Frontend Developer at Worckhub Pvt. Ltd.; Web Developer at Continental Trading Enterprises Pvt. Ltd. Conducted user research, produced wireframes and high-fidelity prototypes in Figma and Adobe XD, and built responsive production websites.

EDUCATION & CERTIFICATIONS

MSc IT & Applied Security Islington College / London Metropolitan University, Kathmandu — Pass with Merit	2022 – 2024
BSc (Hons) Computing — Information Technology Softwarica College of IT & E-Commerce / Coventry University, Kathmandu — First Class Honours	2018 – 2021
Artificial Intelligence Analyst (IBM Academic Initiative) IBM Asia Pacific — ID: 8854-1583-9190-8166	2019 – 2020
Advanced PHP Web Development & Web Design Broadway Infosys Nepal	2017 – 2018

ADDITIONAL INFORMATION

Expected Salary: NPR 125,000 – 200,000 per month (negotiable based on role and scope)
Availability: 2 weeks to 1 month notice
Interests: Photography and videography (freelance event and portrait work), travel across Nepal
References available on request.