

VIJAY RANJAN KARN

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OBJECTIVE

Senior Full Stack Engineer with 6+ years architecting and shipping production systems across **e-commerce, healthcare, IoT, and real-time platforms**. Track record of leading engineering teams of up to 10 engineers, owning end-to-end delivery of **microservice architectures**, and building cross-platform web + mobile products from greenfield to production. Deep expertise in **PHP/Laravel, Flutter**, and distributed systems—comfortable making technology-selection decisions, mentoring developers, and driving initiatives from **architecture through observability**, payment integrations, and IoT hardware control.

EXPERIENCE

Senior Full Stack Engineer

Feb 2026 - Present

Imaginovation

Remote

- Own end-to-end delivery of two products in parallel: **Talkative** (multi-role Speech-Language Pathology portal) and **Butt Rub & Scrub** (self-service dog-wash IoT platform)—spanning architecture, schema design, backend, and mobile.
- Architected the Talkative platform on **Laravel 13 + Livewire 4** with **Spatie** roles and permissions, activity-log audit trail, and **S3** media storage—serving four distinct user roles (therapists, patients, organizations, admins) from a single codebase.
- Engineered the Butt Rub & Scrub backend with **MQTT/Nayax** IoT station control, **Firebase** phone-OTP auth, **Stripe** subscriptions and bookings, and a loyalty rewards system; designed transactional booking flows resilient to hardware failures.
- Defined a reusable **Blade** component library (filter modals, sidebars, role-scoped dashboards, media cards) and content modules using the **TipTap** rich-text editor and HTML5 audio/video—standardizing UI across admin, organization, and end-user roles.
- Delivered the companion **Flutter** mobile app for Butt Rub & Scrub using **Riverpod**, Retrofit, Stripe, MQTT, mobile_scanner, and Google Maps for QR-based station access; established **CSV bulk-import** pipelines with transactional validation and polymorphic address normalization across country/state/county/city reference data.

Technical Head

Feb 2023 - Feb 2026

Alltechlabs Pvt. Ltd.

Gurugram, IN

- Architected **GetDirect** as a microservice suite—a live food-delivery price-comparison platform (iOS & Android, 200+ Indian cities) comprising admin panel, seller panel, mobile API, analytics API, and comparison API, sharing a **Composer-distributed core package** for models, services, and traits to eliminate code duplication across services.
- Led the technology-selection strategy: chose **Typesense** over Elasticsearch for product search, **Ably** for real-time order channels, and **Razorpay** as the primary payment rail—decisions driven by latency, ops cost, and India-market fit.
- Drove **ONDC** ecosystem integration end-to-end (Buyer, Seller, Logistics APIs) and **Shippo** logistics; built a real-time price-comparison engine scraping **Swiggy, Zomato, Magicpin, Uber Eats, and EatSure** using Symfony DomCrawler, Guzzle, and streaming JSON parsing with an in-app ordering flow.
- Shipped a cross-platform **Flutter** consumer app (comparison-app) with **flutter_bloc**, auto_route, Google Maps/Places, Razorpay, full Firebase suite (Messaging/Crashlytics/Analytics), Sentry, and Microsoft Clarity instrumentation.
- Established production-grade DevOps: containerized services with **Docker**, automated deployments via **Bitbucket Pipelines**, and instrumented observability through **Sentry, Laravel Pulse, Horizon**, and Slack alerting.

Full Stack Developer

Uptechsys Pvt. Ltd.

Feb 2022 - Feb 2023

Kathmandu, NP

- Led a **10-engineer team** to deliver a Real Estate Trading platform with **AWS Rekognition** integration; shipped on time with seamless deployment.
- Built an **HR Management System** with ZKTeco biometric device integration and Hisaabkeeper accounting; delivered a **multi-language** Waste Management System with role-based access.
- Designed SEO-optimized school landing pages on Laravel Nova; created APIs and Slack-webhook integrations to drive system functionality and engagement.

Mid-Level PHP Developer

Peepal International Pvt. Ltd.

Jan 2021 - Feb 2022

Kathmandu, NP

- Designed and built **microservice**-based Admin Panel, Customer, and Seller Dashboards for **ePeepal**, Nepal's mass-market multi-vendor e-commerce marketplace; delivered optimized APIs for a modular, scalable architecture.
- Drove a **30% performance boost** and **40% downtime reduction** by implementing PWA features with **Redis**, Laravel Horizon, and **Laravel Nova**.
- Stood up **CI/CD** pipelines on Bitbucket with Sentry and Slack integration; built SEO-optimized landing pages with international payment gateway support.

Part-Time Laravel Developer

Zenlab Pvt. Ltd.

June 2021 - Sept 2021

Kathmandu, NP

- Built **Digitalpalika**, a multilingual **eGovernance** platform for civil registrations (Birth, Death, Migration, Marriage) deployed across local government bodies.
- Shipped **NepoLive**, a BigoLive-style **live audio/video streaming** app for Nepal with wallet, gifts, credits, and ranking systems on **Ant Media Server**; delivered the Mailo App backend for multi-restaurant management, farmers' eShop, and bakery delivery.

Junior Laravel Developer

Nectar Digit Pvt. Ltd.

June 2020 - Jan 2021

Kathmandu, NP

- Shipped **Gurudai** (apkpure.com/gurudai; formerly Shreevahan), a ride-sharing platform with rider/customer apps, heatmap APIs for geo-sorted dispatch, and a Cargo Air Logistics Management System.
- Optimized SQL and database structures for **20x faster** data retrieval; contributed to eNewspaper platforms (Aajakokhabar, CapitalNepal) and eShopping Nepal e-commerce.

SELECTED SIDE PROJECTS

- **Karn Arogyam** — Healthcare technology company building diagnostic and therapy products. Delivered **Vernal Sounds** (vernalsounds.com), a hearing-aid web platform and Flutter companion for tinnitus therapy, plus the Karn Arogyam patient app for **audiometry testing** with **Bluetooth medical-device connectivity** (Laravel 11 + Flutter; Firebase RTDB/FCM, Razorpay, Sentry, Spatie Backup). Productionizes my open-source Sound Generator contribution for audiometric tone generation.
- **Sewa Sathi** (sewasathi.com.np) — Home-services marketplace for Nepal (Laravel 12 + Flutter customer and partner apps) covering plumbing, electrical, cleaning, and salon services with **Khalti**/Razorpay payments, **Sparrow SMS OTP**, and **Pusher** real-time dispatch.
- **AllezSportz** (allezsportz.com) — India's sports training marketplace (Laravel + Flutter; live on **iOS & Android**) connecting athletes, coaches, and sponsors across 6+ sports; features coach booking and scheduling, tournament management, **verified athlete sponsorship** with transparent fund flow and tax-deductible tiers, and an integrated sports-equipment e-commerce module.

EDUCATION

B.Tech in Computer Science and Engineering, Sanskriti University

2017 - 2021

CGPA: 8.1 / 10

SKILLS

Languages and Frameworks	PHP, Laravel, Livewire, Flutter (Dart), Python, Django, Node.js, Next.js
Architecture and Design	Microservices, Composer packages, Event-driven, REST APIs, ONDC
Cloud and Infrastructure	AWS (EC2, S3, Lambda), GCP, Firebase, DigitalOcean, Docker, MQTT
Databases and Search	MySQL, PostgreSQL, Redis, MongoDB, Typesense, OpenSearch, Firestore
DevOps and Observability	Bitbucket Pipelines, Jenkins, Sentry, Microsoft Clarity, Horizon, Pulse
Payments and Realtime	Stripe, Razorpay, Khalti, eSewa, IMEPay, NICAsia CyberSource, Aply, Pusher
Mobile and Tooling	flutter_bloc, Riverpod, JIRA, dompdf, TipTap, Spatie suite, AWS Rekognition
Spoken Languages	English, Hindi, Nepali

LEADERSHIP & OPEN SOURCE

- **Engineering Leadership:** Led a 10-engineer team at Uptechsys; held Technical Head responsibilities at All-techlabs spanning architecture, code review, hiring input, and technology selection.
- **Community Leadership:** Head Co-ordinator at **GOFCA** — Ground Zero Forum for Computer Application (gofca.netlify.app), the Computer Science club at Sanskriti University with 200+ members; drove 50% growth in student participation through curated science exhibitions and workshops. Organizer and Co-director of the **1st GOFCA Hackathon (2018)**.
- **Open Source:** Maintained [Sound Generator for Flutter](#) (now used in production for the Karn Arogyam audiometry module); authored and published [Bing Image Extractor for Laravel](#).
- **Certifications:** *Backend & DevOps:* GitHub Actions for CI/CD, Linux Command Line, Build Laravel Apps Fast with Blueprint, AWS S3, Oracle Database Foundations. *Mobile & Languages:* Getting Started with Flutter Development, Crash Course on Python, 100 Days of Code Python Pro Bootcamp. *Process:* Agile with Atlassian Jira, Foundations of Digital Marketing & E-commerce. (*Udemy, Coursera — 2022-2024*)