

BIBHU PRASAD DE

Full Stack & Mobile Engineer | 3+ Years | MERN · NestJS · Next.js · Kotlin · Swift · Flutter · DevOps · Laravel
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PROFESSIONAL SUMMARY

Results-driven Full Stack and Mobile Engineer with 3+ years of end-to-end ownership across web, mobile, and infrastructure. Delivered 50+ production applications, including 6 live apps on the Google Play Store and Apple App Store with real user bases. Proficient across the full delivery lifecycle: NestJS/Express/Laravel backends, React/Next.js/vue admin frontends, and Kotlin (Jetpack Compose)/Swift/Flutter mobile apps, with containerised deployments via Docker, Nginx, and CI/CD pipelines. Experienced in real-time systems (WebRTC, Agora, Socket.IO), payment integrations (PhonePe, Razorpay, Apple IAP), and polyglot databases (PostgreSQL, MongoDB, MySQL, Redis, RabbitMQ). MCA graduate, Banaras Hindu University.

TECHNICAL SKILLS

Backend: NestJS, Node.js, Express.js, PHP, Laravel, TypeScript, REST APIs, WebSockets, JWT/OAuth, BullMQ, RabbitMQ

Frontend: React.js, Next.js, Redux, Tailwind CSS, Bootstrap, HTML5, CSS3, jQuery, Ajax

Mobile: Kotlin (Jetpack Compose, Coroutines, MVVM), Swift (async/await, SwiftUI), Flutter, Dart

Databases: PostgreSQL (TypeORM), MongoDB (Mongoose), MySQL, Redis (caching, queues, rate limiting)

Real-time: Socket.IO, WebRTC, Agora RTC/SDK, Firebase FCM and Firestore, APNs VoIP, Bunny CDN/Stream, HLS

Payments: PhonePe, Razorpay (subscriptions, webhooks), Apple IAP, virtual wallet and coin economy

DevOps: Docker, Docker Compose, Nginx (TLS, reverse proxy), AWS Lightsail, cPanel, GitHub Actions, CI/CD

Auth/Tracking: Firebase Auth, Google/Apple/Facebook OAuth, Singular SDK, App Links, Universal Links, Deep Links

Other: WordPress, Squarespace, WhatsApp Business API, SEO, Git, OOP, Design Patterns

WORK EXPERIENCE

Full Stack and Mobile Developer (Manager) | Knowledge Nation Law Centre | Delhi Dec 2023 – Present

- Architected and maintain a monorepo of **4 live web platforms** (knowledgegeneration.online, tutoruncle.co.in, knowledgegeneration.co.in, firstias.co.in) and **4 mobile apps** (2 Android + 2 iOS) serving **UPSC and legal exam aspirants** on a single Node.js/Express API hosted on AWS Lightsail.
- Reduced API response time by **~85%** on high-traffic course listing endpoints by implementing Redis caching (TTL 5 min), cutting average latency from ~800 ms to under 15 ms.
- Shipped Knowledge Nation and First IAS apps on **Google Play Store and Apple App Store**; Bunny Stream + HLS for scalable video delivery, Firebase FCM for push notifications, and Google OAuth for SSO across all platforms.
- Managed a polyglot data layer: MongoDB for dynamic course content, MySQL for structured bookings and transactions, and Redis for session management.
- Applied on-page SEO best practices across all web properties; deployed via **Docker with GitHub Actions CI/CD** for zero-downtime releases.

Full Stack and Mobile Developer (Freelance) | Indian Software Services Pvt. Ltd. | Delhi Jun 2025 – May 2026

- Led end-to-end development of **HeyyPal** — a mental wellness and expert consultation platform — across NestJS API, Next.js admin portal, Kotlin/Jetpack Compose Android app, and Swift iOS app; deployed on VPS via Docker Compose with Nginx TLS termination.
- Built and published **ChatAura** — a social live-entertainment Android app — featuring Agora real-time party rooms, 1:1 audio/video calls, UGC reels/posts, virtual gift economy, and Razorpay wallet; shipped to Play Store (v1.3, SDK 35) with **40+ REST API integrations**.
- Verble** — a mobile-first English learning EdTech platform — with 70+ frontend pages, 200+ backend modules, Razorpay subscription tiers, Bunny CDN/HLS video streaming, gamification engine, and Docker VPS deployment with zero-downtime rollback scripts.
- Android (Kotlin), iOS (Swift), and cross-platform (Flutter, React Native) mobile solutions with full CI/CD pipelines across all client projects.
- Built and deployed Pelvic Care Health (Laravel + MySQL + Razorpay), TakeMyService (Laravel + MySQL + PhonePe webhooks + WhatsApp automation), Ocean Realtors (Laravel), and IndSoft24 WhatsApp Business Suite.

Frontend Developer | Shivila Technologies Pvt. Ltd. | Kolkata, WB Jun 2023 – Nov 2023

- Built responsive React + Redux web applications including e-commerce, matrimonial, rental, and admin dashboard platforms with pixel-perfect UI using Tailwind CSS and Bootstrap.
- Integrated third-party REST APIs and backend services, ensuring smooth data flow across frontend components.

FEATURED PROJECTS

HeyyPal — Mental wellness and expert consultation platform | Android, iOS, Web Admin, API [Android](#) | [iOS](#)

Stack: NestJS · TypeScript · PostgreSQL · MongoDB · Redis · RabbitMQ/BullMQ · Socket.IO · Next.js · Kotlin · Jetpack Compose · Swift · Agora · Firebase FCM + APNs VoIP · PhonePe · Apple IAP · Docker · Nginx · Singular

- **Architected a full production monorepo:** NestJS REST + WebSocket API, Next.js admin/agency portal, Kotlin/Compose Android app, and Swift iOS app — all containerised and deployed on VPS with Docker Compose, Nginx TLS termination, and health checks.
- Implemented real-time voice calling via **Agora RTC** with Firebase FCM push (Android) and APNs VoIP (iOS) for incoming-call notifications; Socket.IO for live chat, presence, and call logs.
- **Built wallet and monetisation engine:** PhonePe recharge, Apple IAP, virtual gift economy, expert withdrawal workflows, discount codes, and transaction analytics dashboard.
- Shipped admin and agency portals for user/expert management, broadcast push notifications, promo banners, and withdrawal approval flows.
- Configured App Links (Android) and Universal Links (iOS) for deep-linked profile sharing; Singular SDK for user acquisition tracking.

ChatAura — *Social live-entertainment Android app* | [chataura.in Android](#) | [Web](#)

Stack: Kotlin · Jetpack Compose · MVVM · Retrofit/OkHttp · Room · Coroutines/Flow · Agora RTC · Firebase FCM + Firestore · Razorpay · AdMob · Media3/ExoPlayer · CameraX · ProGuard/R8

- Built full Android client (v1.3, SDK 35) with **Agora multi-user party rooms**, 1:1 audio/video calls, DMs/group chat via Firebase Firestore, UGC reels/posts feed, virtual gifts, and gamification features (spin wheel, scratch cards, mini-games).
- Designed **server-validated coin wallet** with Razorpay recharge and AdMob rewarded ads; backend owns all pricing and ledger to prevent client-side tampering.
- Integrated CameraX + Media3 video pipeline for recording, trimming, transcoding, and upload; applied R8/ProGuard release builds with baseline profiles and 16 KB page-size NDK compatibility.

Knowledge Nation / First IAS / TutorUncle — *Full-suite EdTech platform for UPSC and legal exam aspirants*

[KN Web](#) | [TutorUncle](#) | [KN Android](#) | [KN iOS](#) | [IAS Android](#) | [IAS iOS](#)

Stack: Next.js · MERN (Node/Express, MongoDB, React/Redux) · Core PHP · Laravel · Kotlin · Swift · Bunny Stream · Firebase · Google OAuth · MySQL · Redis · AWS Lightsail

- **Single Node.js/Express API on AWS Lightsail** serving 2 Android apps, 2 iOS apps, 2 Next.js/React web portals, and 2 PHP sites concurrently — all with role-based routing and unified authentication.
- Bunny Stream + HLS for scalable video delivery; Firebase for push notifications and Google SSO; **Redis caching reduced API latency by ~85%**; MongoDB for content; MySQL for bookings and transactions.

Verble — *Mobile-first English learning EdTech platform* [Web](#)

Stack: React 19 · TypeScript · Vite · MUI · Node.js · Express · MongoDB · Redis · Razorpay · Bunny CDN · Google OAuth · Docker · Nginx

- Built **70+ frontend pages and 200+ backend modules**; daily activity engine (word, phrase, story, puzzle, conversation, speech, scene practice); Razorpay subscription tiers (Bronze/Silver/Gold); Bunny CDN/HLS video courses with cumulative unlock and progress tracking.
- Admin CMS with bulk CSV upload, video management, leaderboard, certificates, and blog; Gemini AI-assisted speaking/writing on premium tiers; Docker Compose VPS deployment with **zero-downtime rollback deploy scripts**.

Pelvic Care Health — *Healthcare appointment and patient management platform* [Web](#)

Stack: PHP/Laravel · MySQL · Razorpay

Appointment booking, patient management, and medical content portal with Razorpay payment integration.

TakeMyService — *Full-stack service marketplace with e-commerce and WhatsApp automation* [Web](#)

Stack: PHP/Laravel · MySQL · PhonePe (webhooks) · WhatsApp Business API

End-to-end order tracking, PhonePe payment webhook handling, and WhatsApp Business automation for order status and customer communication.

IndSoft24 and WhatsApp Business Suite — *Corporate website and WhatsApp automation portal* [Web](#) | [WA Portal](#)

Stack: PHP/Laravel · WhatsApp Cloud API

Corporate site and WhatsApp Business automation portal for bulk messaging, template management, and webhook-driven contact workflows.

Additional 30+ projects: e-commerce stores, EdTech portals, dynamic blogs, matrimonial and rental platforms, portfolio sites, and admin dashboards across MERN, PHP/Laravel, and WordPress stacks.

EDUCATION

Master of Computer Applications (MCA) | Banaras Hindu University, Varanasi *Dec 2021 – Jul 2023*

Core coursework: Data Structures, Algorithms, OOP, Database Systems, Operating Systems, Software Engineering.

Bachelor of Science — Mathematics | University of Burdwan, WB *May 2017 – Jun 2020*

CERTIFICATIONS

- JavaScript (Intermediate) — HackerRank | Design Patterns, Promises, Memory Management, Event Loop
- CSS, Bootstrap, JavaScript and PHP Stack — Proper Dot Institute on Udemy (Dec 2023)
- SEO with Squarespace — site-level and on-page optimization, local search, blog SEO (Nov 2023)
- Problem Solving (Intermediate) — HackerRank | HashMaps, Stacks, Queues, Optimal Algorithms

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