

# Shanu Singh

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## SUMMARY

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Senior Mobile & Full Stack Engineer with 8+ years of experience and 25+ production apps across fintech, healthcare, and marketplace domains. Scaled a group travel platform from 0 to 100K users generating INR 1Cr+ GMV in under a year. Specialized in React Native, iOS (Swift), offline-first architectures, payment infrastructure, and CI/CD automation. Proven ability to lead architectural modernization, build reusable engineering frameworks, and ship high-performance mobile products end to end.

## TECHNICAL SKILLS

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- **Languages:** JavaScript, TypeScript, Swift, Kotlin, Java, Python, C#
- **Mobile:** React Native, iOS (Swift), Android
- **Frontend:** React.js, Next.js, Redux Toolkit, TailwindCSS
- **Backend:** Node.js, Express, Prisma ORM, REST APIs
- **Databases:** PostgreSQL, MongoDB, Realm, SQLite
- **Cloud & DevOps:** AWS (S3, Lambda, CloudFront, IAM), Docker, Railway, CI/CD
- **Architecture:** Offline-first systems, API-first design, JWT auth flows, mobile system design

## EXPERIENCE

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### Mobile App Developer

May 2025 – Present

*Outsourced.co (Client: FoundersCard)*

*Remote*

- Led modernization of legacy **React Native** application including dependency upgrades, architectural refactoring, and security fixes – reducing crash rate by ~20%
- Implemented automated **CI/CD pipelines** reducing release preparation time from ~3 hours to under 20 minutes
- Architected and delivered **AI-powered concierge feature** integrating LLM APIs with low-latency response rendering in the mobile UI
- Migrated legacy **Chrome extension** to modern architecture ensuring compatibility with updated browser standards

### Solutions Engineer

Jun 2023 – Oct 2024

*SpurTree Technologies*

*Bangalore*

- Architected a reusable **React Native boilerplate** with Redux Toolkit (duck pattern), modular UI, and service-layer abstraction – reducing project setup time by ~60%
- Designed **offline-first mobile architecture** for Boardworks with encrypted **Realm database** supporting 1000+ documents per user while reducing load latency by ~45%
- Built legacy **SQLite** → **Realm migration engine** with background sync, retry queues, and delta synchronization – cutting bandwidth usage by ~60%
- Established engineering governance using **ESLint**, **Husky pre-commit hooks**, **snapshot testing**, and **SonarQube** for automated code quality enforcement

### Senior Software Engineer (Contract)

Feb 2022 – May 2023

*Kramah Software India Pvt Ltd (Clients: Tata Elxsi, Aster DM Healthcare)*

*Remote*

- Built OTT streaming applications for **Apple TV (tvOS)** and **Roku** at Tata Elxsi, working with **HLS**, **MPEG-DASH**, and DRM systems (**FairPlay**, **Widevine**)
- Implemented teleconsultation solution for **Aster DM Healthcare** integrating Cisco Webex SDK into React Native with custom **native modules in Swift and Kotlin**
- Designed bridging architecture handling lifecycle events, permissions, and real-time video session management across platforms

### Senior Software Engineer

Dec 2018 – Feb 2022

*Webority Technology Pvt Ltd*

*Gurgaon*

- Shipped multiple production mobile apps using **iOS (Swift)** and **React Native** across fintech, travel, and wellness domains including **DreamFolks** and **Wealthzi**
- Transitioned iOS codebase from Storyboards to **programmatically UI (SnapKit)**, reducing merge conflicts and improving development velocity by ~30%

- Built fintech investment platform enabling **SIP and lump-sum mutual fund investments** with secure onboarding, Firebase Auth, APNs, and Redux-based state architecture
- Mentored junior developers and collaborated with backend teams on API design, database schema planning, and project estimations

### Front End Engineer

Nov 2016 – Jun 2017

*Ompee World School / Webcodey IT Solutions*

*Gurgaon*

- Built and deployed CMS-driven websites, responsive landing pages, and lead-generation workflows using WordPress, PHP, HTML/CSS, and JavaScript
- Managed hosting, SEO optimization, analytics integrations, and digital marketing campaigns for institutional and client projects

## KEY PROJECTS

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### KozyClan – Group Travel Marketplace

React Native, Node.js, Next.js, AWS

- Designed and built **KozyClan** end to end – React Native mobile app, Node.js backend APIs, and Next.js vendor/admin CMS with merchant onboarding and trip lifecycle management
- Implemented **Razorpay payment workflows** including booking capture, refunds, vendor payouts, escrow-style release logic, and automated GST-compliant invoice generation
- Integrated compliance workflows including **GST verification APIs**, penny-drop bank validation, and automated KYC – reducing vendor onboarding from days to under 30 minutes
- Optimized API and caching strategies reducing average mobile screen load time from ~2.8s to ~1.6s; improved booking conversion by ~18% through **Mixpanel** funnel analytics
- Scaled platform from **0** → **100K users** generating **INR 1Cr+ GMV** within the first year of launch

### CreatorXHub – Creator Economy Platform

Next.js, Node.js, Prisma, PostgreSQL

- Built creator-brand collaboration marketplace with campaign management, creator bidding, and **Instagram API** integration for automated engagement metrics sync
- Developed full backend on Node.js/Express with Prisma ORM, PostgreSQL, JWT auth with refresh tokens, RBAC, and **Razorpay** payment architecture with automated payouts

### Cars24 – Multi-Region Mobile Apps

React Native

- Developed seller-side workflows using **TailwindCSS** including sidebar navigation and advanced filtering across country-specific standalone applications
- Implemented **i18n localization** using JSON-based language files enabling seamless multi-language support for **Cars24's** expansion into international geographies

## EDUCATION

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### B.Tech in Computer Science

*MDU Rohtak*

2013 – 2017

*Rohtak, India*