MAYANK SHARMA

FULL-STACK DEVELOPER

Next.js, TypeScript, PostgreSQL, Real-Time Audio/Video & Mobile Systems | #1 Regional IndiaSkills 2025
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SUMMARY

Full-Stack Developer with 2.6 years of production engineering experience architecting scalable web applications, cross-platform mobile clients, and real-time media systems. Lead Engineer for 8 deployed applications at Krishna Consciousness Society, supporting over 2,200 combined users across web and Google Play with 99.9% operational uptime. Ranked #1 in Mumbai and Navi Mumbai regional software development competitions (IndiaSkills 2025).

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Dart, C++
Web & Mobile: Next.js 15 (App Router), React 19, React Native, Flutter, Tailwind CSS, Riverpod, Zustand
Backend & Data: PostgreSQL, Supabase, Node.js, Express, PL/pgSQL (Triggers & RPCs), Row-Level Security (RLS), REST APIs, Hive NoSQL
Realtime & AI: WebRTC, LiveKit, Stream.io, Azure OpenAI (STT/LLM/TTS), Vector RAG, Azure VM, TensorFlow.js
Payments: PhonePe, Cashfree, Razorpay, Google Play Billing, Signature-Verified Webhooks
Tools: Git & GitHub, GitHub Actions (CI/CD), Docker, Linux/Zsh, Postman, Vercel

EDUCATION

B.Sc. Information Technology · KLE Society's Science & Commerce College (University of Mumbai) 2023 – 2026
CGPA 8.35/10 · Final-year project: KCS Meet · Navi Mumbai, Maharashtra

EXPERIENCE

Lead Software Engineer · Krishna Consciousness Society (KCS) Apr 2024 – Present
Jaipur, Rajasthan (Remote)

- Lead architecture and full-lifecycle engineering for 8 production web and mobile applications, coordinating 3 contributors and publishing 6 releases on Google Play with 2,100+ installations and ~1.5M impressions.
- Designed relational PostgreSQL schemas utilizing 11 relational tables, 15 migration scripts, foreign-key constraints, and granular Row-Level Security policies to maintain complete data integrity.
- Built real-time media and communication pipelines with Stream.io and WebRTC, delivering an 11-hour continuous live session for 140+ concurrent participants with zero platform crashes.
- Implemented asynchronous Python background workers on Azure VMs coordinating speech-to-text, LLM completions, and text-to-speech with Azure OpenAI and vector RAG retrieval.
- Integrated payment gateways (PhonePe, Cashfree, Google Play Billing) using signature-verified webhook endpoints, maintaining 100% reconciliation accuracy across transactions.
- Automated continuous integration and deployment workflows using GitHub Actions, enforcing automated linting, test validation, and build verification prior to production releases.

SELECTED PROJECTS

Sadhana Chart: Spiritual Habit Tracker & Sangha ERP Google Play
Flutter · Dart · Android (Kotlin) · iOS · Supabase · PostgreSQL · Hive NoSQL · Riverpod · GoRouter · FCM v1 · Deno Edge

- Architected an offline-first mobile ERP with 21 active routes across 11,000+ lines of custom Dart and Kotlin code, published live on Google Play.
- Constructed dynamic 92-point scoring state machines via PostgreSQL triggers, PL/pgSQL routines, and an offline-to-remote Hive synchronization queue.

KCS Meet: Divine Connect (Final-Year B.Sc IT Capstone Project) meet.krishnaconsciousnesssociety.com
Next.js 14 · TypeScript · Stream.io · Supabase · Clerk · TensorFlow.js · Cashfree

- Built virtual conference platform supporting 1,362 registered users; delivered an 11-hour continuous session for 140+ participants without crashes.
- Integrated Stream.io for HD video/audio, Clerk authentication, Cashfree Super Chat (¹10K in 3 mos), and TensorFlow.js AI backgrounds.

Shankhnaad AI – KCS shankhnaad.krishnaconnect.org
Next.js · Python · LiveKit · Azure OpenAI · Supabase · RAG · PhonePe

- Engineered real-time voice pipeline with containerized Python LiveKit workers, Azure OpenAI models, and scripture vector RAG on an Azure VM.
- Integrated PhonePe tiered subscription billing (Free, Go, Premium) with signature-verified webhooks; recorded 930 device acquisitions (Play).

Also built: Frost Bite Smart Eats (1st place, KLE Tech Roadies 2026), Bal-Krishna Adventure (767 new devices, Play), Goloka Tunes, Chitra, QNC Ganpati (client site).

AWARDS & CERTIFICATIONS

- IndiaSkills 2025, Maharashtra: Ranked #1 in Mumbai and Navi Mumbai regionals; competed at State Skills Competition in Software Application Development (MSSDS)
- InnoFusion 1.0 Hackathon: Top 25 Finalist across multi-state engineering teams (UEM Kolkata)
- KLE Tech-Roadies 2026: 1st Place Winner in technical coding competition
- Cisco: Python Essentials 2 (Credential: 6c42f05a-bc7a-4e76-860e-7af5aa87c83c)
- Cisco: Introduction to Cybersecurity & Ethical Hacker
- Udemy: React.js Crash Course: From Zero to Hero
- upGrad: JavaScript Fundamentals