

NABHYA SHARMA

Senior Mobile Full-Stack Engineer

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PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with 7+ years of experience building and shipping production systems — from real-time distributed backends to mobile apps and AI-powered pipelines. Specializes in live data streaming, WebSocket synchronization, and event-driven architectures using Kafka and Redis. Proven track record delivering end-to-end products at scale. Published researcher in server-driven UI. Equally effective coding with and without AI tooling, with a focus on optimizing token consumption in LLM-powered workflows. YouTube educator with 1.7K+ subscribers (@dartbucket).

TECHNICAL SKILLS

Core Expertise: Flutter, Node.js, Real-Time Systems, Distributed Systems, System Design

Languages: Dart, Python, TypeScript, JavaScript, C/C++

Mobile & Web: Flutter (Riverpod, BLoC, Provider, GetX, Dio), React, RESTful APIs

Backend: Node.js, Express.js, FastAPI, Kafka, Redis, RabbitMQ, WebSockets, Socket.io, GraphQL, Nginx

AI / ML: LLM Integration, RAG Pipelines, Computer Vision (YOLO, OpenCV), Hugging Face, Qdrant VectorDB, TensorFlow, PyTorch, Edge AI, UAV image processing, LangChain

Cloud & DevOps: AWS, Docker, Kubernetes, Firebase, Appwrite, CI/CD, App Store & Play Store

Databases: MongoDB, PostgreSQL, Qdrant

AI Coding Tools: Cursor, Claude Code, GitHub Copilot

Familiar: Arduino, Raspberry Pi, WearOS

EXPERIENCE

Maize Lab (US-Based) | *Software Developer* 2024 – Present

- Architected BiteBet with real-time sports betting platform serving 1K–10K concurrent users with live match data feeds from third-party APIs
- Designed an event-driven Node.js pipeline using Kafka and Redis for ingesting, transforming, and delivering live betting odds with sub-second WebSocket synchronization
- Built the full product end-to-end: Flutter mobile app, responsive web frontend, and scalable RESTful backend
- Reduced average API response latency through optimized pipeline architecture supporting thousands of concurrent live sessions

Tezda (UK-Based) — PingTop | *Software Developer* 2024 – June 2024

- Engineered real-time chat and messaging infrastructure for PingTop — now live on Google Play with 1M+ downloads and a 4.3★ rating (4K+ reviews)
- Built end-to-end encrypted one-on-one messaging with read receipts, media sharing (photos, video, voice), and granular message controls
- Implemented persistent background services and WebSocket communication for seamless UX across all app states
- Optimized media upload/download pipelines for reliable performance across low-bandwidth environments

Ricoz (Hyderabad-Based) | *Lead Developer* 2023 – 2024

- Led and mentored a team of 30+ junior developers through structured code reviews and pair programming sessions
- Redesigned the technical interview process, reducing hiring time by ~25% and improving candidate signal quality
- Deployed 3 Flutter applications to both App Store and Google Play; managed AWS cloud infrastructure and production deployments

Hive8 (Mumbai-Based) | *Flutter Developer* 2022 – 2023

- Designed end-to-end UI/UX in Figma and implemented pixel-perfect Flutter interfaces

- Built a real-time chat application using Flutter, Node.js, and Socket.io with custom animations and responsive multi-screen layouts

Tutorang (US-Based) | *Flutter Developer 2020 – 2023*

- Designed UI/UX for teacher apps and APIs using .NET
- Implemented Student-Teacher in app chat with sanity filter for messages.

Tutorang (US-Based) | *Developer Intern 2019 – 2020*

- Designed UI/UX for student apps
- Implemented student registration and profile flow in flutter.

NOTABLE PROJECTS

Desktop Vision AI Development Suite (Wildlife Institute of India)

- End-to-end computer vision pipeline: visual labeling, segmentation, model training, and automation, built from scratch

Real-Time Betting Platform — BiteBet

- Distributed event architecture with Kafka and Redis; live odds streaming with sub-second latency across concurrent users

API Tester (Postman Alternative)

- Full-featured cross-platform desktop tool for API testing and debugging built with Flutter, JavaScript, and Node.js

WearOS Motion Control

- Gesture-based motion control system for Wear OS smartwatches using sensor fusion, featured on YouTube

RESEARCH & PUBLICATIONS

- **FreeFlow: A Framework for Server-Driven Mobile Applications** — *ScienceDirect (Elsevier), 2025*
- **Optimized Chunking and Blockchain-Backed Storage of Aerial Data in a Web 3.0 Architecture** — *Copyright , 2025*
- **Edge-AI Enabled Grassland Monitoring Framework Using UAV Imagery** — *Prezentis Applied Science Conference, Prague, 2025 — Presented in Person*

SPEAKING & COMMUNITY

- Speaker at Google DevFest 2023 — delivered a technical talk on Flutter to a developer audience.
- YouTube educator at @dartbucket with 1,700+ subscribers producing Flutter & Dart technical tutorials in depth.

EDUCATION

M.Tech — Computer Science & Artificial Intelligence — Graphic Era Deemed University, Dehradun 2024 – 2026

B.Tech — Computer Science — UCER, Greater Noida 2019 – 2023

CERTIFICATIONS

IELTS Academic — Overall Band 7.0 (C1) | Listening: 7.5 • Reading: 7.5 • Writing: 6.0 • Speaking: 7.5 | June 2026

LANGUAGES

English (Fluent) • **Hindi** (Native)