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Sudhanshu Joshi

Lead Technical Engineer · Mobile, Full-Stack & Real-Time Systems

SUMMARY

Engineer with four years at Medoc Health, a healthcare technology company, growing from Flutter intern to Lead Technical Engineer of a 25-person organisation across mobile, backend and AI/ML. Hands-on in Flutter, React and Node.js, with depth in real-time systems (WebSocket, WebRTC/LiveKit), API and schema design, and design systems. Independently builds and ships products under the name sjbuilds, including an LLM-backed SaaS and an app on Google Play.

EXPERIENCE

Medoc Health — healthcare technology — Oct 2022 – Present

Lead Technical Engineer · joined as Flutter Developer Intern

- Lead a 25-engineer organisation spanning mobile, backend and AI/ML, building a connected platform for hospitals; set technical direction, run code review and PR workflows.
- Built the real-time layer of **ME**, the patient app: video consultations on LiveKit (WebRTC) and live alerts over WebSockets.
- Work across Flutter and React clients of a multi-module hospital operations platform; design API contracts and data schemas with the backend team.
- Introduced shared component style guides and design-system standards across four product surfaces built by different engineers.
- Brought AI-assisted development into the team's day-to-day writing, refactoring and debugging of code.

PRODUCTS — SJBUILDS

StandupPulse — standup tracker & progress visualizer · standuppulse.sjbuilds.dev — 2026

- Multi-tenant SaaS that turns daily standups into a structured record and narrated timeline of a team's work; role-based access for admins, managers and members.
- Background workers (Redis + BullMQ) use an LLM to extract tasks, blockers and progress events; output is schema-validated as untrusted input, with retry/backoff and result caching.
- Tenant isolation enforced in a single middleware and covered by a cross-tenant leak test suite; idempotency keys make retried writes safe.

`React 19 · TypeScript · TanStack Query · Node.js / Express · MongoDB · Redis · BullMQ · Vitest`

Droplet — hydration tracker · live on Google Play — 2025 – 2026

- Personal daily water goal from weight, age and activity, adjusted for local weather; formulas validated against published hydration research.
- Server-driven reminders via scheduled Cloud Functions and FCM; streaks and milestones; CustomPainter body visualisation; Shorebird over-the-air patches.

`Flutter · BLoC · Firebase Auth / Firestore · Cloud Functions · FCM · Shorebird`

OTHER PROJECTS

- **GitHub Wrapped** — yearly GitHub recap; Flutter web + Node/Express API.
- **P2P video calling** — Flutter + WebRTC with a custom Socket.IO signalling server.
- **Digital Prescription Pad** — handwriting canvas for doctors with PDF export.
- **TransitFlow** — crew scheduling and live bus tracking web app.

WRITING

- **The Payment Went Through. The App Said It Failed.** — TCP, lost responses and idempotency keys. *Medium, 2026*
- **The Librarian Who Forgets You Every Time** — sessions, tokens and authentication end to end. *Medium, 2026*

SKILLS

Mobile	Flutter, Dart, BLoC, Firebase, iOS & Android release
Web	React, TypeScript, JavaScript, TanStack Query, Tailwind CSS
Backend	Node.js, Express, REST API design, MongoDB, SQL, Redis, BullMQ
Real-time	WebSocket, WebRTC, LiveKit, Socket.IO
Practice	Design systems, multi-tenant architecture, LLM integration, code review, AI-assisted development

EDUCATION

B.Tech, Computer Science & Engineering — 2021 – 2025

Medicaps University, Indore

CERTIFICATIONS

- Google AI Essentials Specialization — Google / Coursera
- AWS Academy Cloud Foundations — AWS Academy