

Siddesh Ubale

Team Lead • Systems & AI

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I build the systems that other systems depend on. Six years in the JavaScript ecosystem, now leading seven engineers across three tracks: a live healthcare platform, applied AI going into it, and a proof-of-concept pipeline shipping working prototypes most weeks. Deep in React Native, including the parts where you have to leave JavaScript entirely.

Experience

Team Lead — Stark Digital Media Services

October 2025 — Present • Pune

Seven direct reports across three tracks: two senior full-stack engineers on product delivery, one AI engineer on AI integrations, and four on a proof-of-concept pipeline I run as a training programme.

A live healthcare platform — client work under NDA. Architecture across web, mobile and backend.

- **Cut app load time from 10–13 seconds to under 2** — near-instant on typical loads.
- **Took the account out of the submission path entirely.** A tap at the point of contact opens the form with the submitting organisation already resolved — no sign-up, no credentials, no onboarding. Submission volume dies on account friction; this removed it.
- **Built a developer console** so third-party systems push data in directly, turning a closed product into an integration surface other vendors build against.
- **Architected multi-master bidirectional sync across three third-party systems.** Every system is writeable and none is authoritative: a change originating anywhere reconciles centrally and pushes out to the rest, without echoing back to where it came from. Conflict resolution and echo suppression are the whole job.
- Own the full release pipeline across iOS, Android and web.
- Direct AI integrations on the platform.

Statutory clearance portal — public sector, delivered through Stark Digital.

- **Cut approval turnaround from weeks to 48 hours** against a statutory deadline fixed in law that cannot slip.
- **800–1,200 certificates issued**, consolidating consent from **42 independent government departments** into one certificate.
- The hard problem was not the workflow but the 42 front doors: every department had its own non-technical staff who had to adopt the system mid-cycle, so it had to be obvious without training.
- Automated messaging for real-time approval and rejection updates, meeting officers where they already were.

Lead Software Engineer — Kumowiz Technologies

August 2021 — October 2025

GiggleMusic (Mondo Music) — React Native music platform, iOS and Android.

- **Four years owning the mobile product end to end**, shipping to both stores every 2–3 weeks.
- **Fixed video quality by dropping to native.** React Native's video libraries don't expose the compression parameters that matter, so compressed uploads came out a blurry mess. I built and maintained a bridge to LiTr to take direct control of encoding.
- Owned the full release lifecycle — signing keys, provisioning profiles, store submissions, both platforms.
- Standardised analytics into in-house packages wrapping Firebase and AppsFlyer, giving marketing one consistent source of numbers across apps.
- Sole client interface alongside full development responsibility.

Dgraph — cloud management portal for an open-source graph database. UI for cloud administration modules, Google authentication, unit and integration test coverage, and bug fixes in the internal Typhoon UI component library.

Full Stack Developer — NO Brain Solution

January 2020 — August 2021

- **SPRINT** — high-fidelity interactive animation in HTML5 Canvas and Anime.js for an education platform, performance-tuned for fluid rendering across devices.
- **SEB Cares** — Cordova utility apps and admin portal. Primary liaison between Operations and IT, owning delivery from requirements through UAT to production, and establishing the coding standards that stabilised the codebase.

The AI practice

I run the proof-of-concept pipeline at Stark Digital as a training programme. Engineers get a real problem, a contract-first architecture and a Friday deadline. I set the architecture and review every module; they build and own it.

- **Multi-tenant AI document search** — four-layer retrieval (vector similarity, metadata filtering, neural re-ranking) returning answers with page-level citations. Row-level security between tenants. Redis semantic caching cuts token spend up to 50%.
- **IRIS** — occupancy-aware building automation using computer vision, so stationary occupants are never missed. Runs on the local network with sub-100ms response and no cloud dependency.
- **Digital Concierge** — multilingual civic intake across Marathi, Hindi and English, with OCR for handwritten letters and an urgency-sorted dashboard. Every AI component sits behind a swappable interface so it runs on cloud models for demos and offline models in production.
- **Expense Auto Reconciler** — on-device receipt capture and automatic matching to bank transactions. Financial data never leaves the phone.
- **Cognitive Anti-Doomscroll Guardian** — on-device sentiment analysis via Gemini Nano and Apple Foundation Models, with zero network permissions.

Technical

Area	Tools
Front-end	React, Next.js (SSR/SSG), TypeScript, Redux, Context API, HTML Canvas, Tailwind CSS
Mobile	React Native, iOS/Android lifecycle, native bridge integration
Backend & DevOps	Node.js, REST and GraphQL APIs, MongoDB, AWS (S3/SES/SNS), Docker, CI/CD
AI engineering	RAG and vector search, on-device AI, LLM integration, model-agnostic architecture
Quality	Jest, React Testing Library, Playwright, Selenium, Locust
Leadership	Team leadership, technical mentoring, architecture review, client communication, release management

Education

B.Sc. Computer Science — Pune University, First Class