Keshav Raj · Senior Software Engineer

Lead engineer building white-label SaaS platforms. Hard features, end to end.

https://www.linkedin.com/in/keshav-raj/ | https://github.com/keshav-raj | https://www.keshav-raj.com

SELECTED PROJECTS

Heat & battery hunt (2026) · Investigator + fixer
133% ’ 20% ·Android background CPU 133% ’ ~20%, battery 69%, native memory leak flattened.
https://www.keshav-raj.com/work/heat-and-battery

Build Platform (2026) · Owner
45 ’ 7MIN · Android build per school 40–50 ’ 6–8 min with a Gradle-parameterised rewrite.
https://www.keshav-raj.com/work/build-platform

Per-build VM runners (2026) · Architect + sole implementer
24 ’ 6MIN · Keyless, self-deleting build VMs with back-pressure: 4× faster than managed builds.
https://www.keshav-raj.com/work/vm-runner

Glass lesson player (2026) · Primary engineer
LEGACY RE-ROUTED · New lesson player with parity gates; legacy URLs re-routed.
https://www.keshav-raj.com/work/lesson-player

Challenges & streaks (2026) · Implementer
XP · STREAKS · XP, levels and streaks; 9 audit defects fixed before launch.
https://www.keshav-raj.com/work/challenges

Live classes & Zoom (2021–24) · Implementer
3 PLATFORMS · Embedded live player and Zoom on Android, iOS and web, with anti-recording.
https://www.keshav-raj.com/work/live-classes

Bodhi learner platform (2024 ’ now) · Founder + architect
13 SERVICES · Runtime micro-frontend platform shared by web, school sites, live class and mobile.
https://www.keshav-raj.com/work/bodhi

Headless player SDK (2026) · Architect + sole author
98% MUTATION · FSM core with DRM providers; now the default player. 198/198 tests.
https://www.keshav-raj.com/work/player-sdk

ProductEventHub (2026) · Designer + primary author
200K/DAY · Typed producers, one durable outbox: ~200k auth failures a day eliminated.
https://www.keshav-raj.com/work/event-hub

CAREER

2019–2020 · Engineer. Joined a white-label learning platform and became the main builder of its new React Native + Next.js learner app.
Designed the web test player: one logic layer, a template per exam; Led the merge of mobile into the shared codebase; First admin feature: offline quiz & essay grader.

2021–2022 · Senior engineer. Moved from features to the layers everything else depends on.
Shared API cache for web + mobile; Mock-test questions served from the CDN; RN performance pass: cold start 8 s ’ 1 s

2023–2025 · Senior engineer / code owner. Became the person most code passed through, then started the next platform.
Merged 57–69% of all learner-app PRs; ~600 reviews; Client analytics pipeline at 100M records/day; Founded the next-generation learner platform (2024).

2026 · Lead / Staff. Platform, fleet and security work across many repos at once, increasingly delivered with AI agents.
Fleet control plane for ~660 apps; self-hosted OTA; Mobile builds 45 ’ 7 min; anti-piracy detect-then-enforce; Cadence: governed multi-agent delivery.

SKILLS

REACT NATIVE	RN 0.63’0.81, Hermes, MMKV, FlashList, native modules
WEB / NEXT.JS	App Router, React 19, SSR, micro-frontends
PLATFORM & CI/CD	GCP, GKE, Cloud Build, VM runners, release consoles
SECURITY & DRM	Widevine / PlayReady / FairPlay, device-bound tokens, signing
AI AGENTS	Claude / Codex agents, verifiers, budgets, human gates
DATA & ANALYTICS	Event pipelines, StarRocks, BigQuery, durable outboxes
PRODUCT & SPECS	Specs, user stories, API contracts, metrics design
LEADERSHIP	Sprint governance, reviews, audits, roadmaps