

Abhishek Singh

Senior Full-Stack / Applied AI Engineer

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Senior full-stack product engineer with 10 years of production experience across web apps, ERPs, OTT/video streaming, mobile apps, backend systems, product analytics, user feedback loops, and growth campaigns. Led mobile engineering for OTTPlay via Wrocius/HT Media at 10M+ download scale and shipped 8+ production applications across OTT, edtech, ERP, logistics, and on-demand services. Over the last 18 months, solo-built WittyKeys, a production Android AI keyboard powered by Claude through Firebase, live on Google Play. Strong in React.js, Next.js, React Native, Android, TypeScript, Node.js/NestJS, Firebase, AWS, MongoDB/MySQL, LLM workflows, RAG, evaluation, observability, automated QA, and shipping product features under real user constraints.

TECHNICAL SKILLS

AI / LLM: Claude API, OpenAI API, prompt engineering, structured outputs, tool use, human-in-loop workflows, agent orchestration, RAG pipelines, semantic search, evaluation, LLM-as-judge.

Full-stack: TypeScript, JavaScript, React.js, Next.js, Node.js/NestJS, Firebase Cloud Functions, Firestore, REST APIs, auth, CORS, scheduling, analytics, observability.

Mobile: Android, Java, Kotlin, React Native, iOS, ExoPlayer, AVPlayer, IMA SDK, DRM, HLS/MPEG-DASH, native modules, Play Store release, permissions, billing, crash/ANR/performance monitoring.

Product systems: ERP systems, video streaming products, engagement-event analysis, user surveys/feedback, retention campaigns, conversion campaigns, sprint planning from product signals.

Data / Infra: AWS, GCP, Docker, PostgreSQL, MongoDB, MySQL, vector DB patterns, structured logging, Firebase Analytics, Crashlytics, Axiom, Sentry, PostHog.

EXPERIENCE

Independent AI Engineer / Founder - WittyKeys

Sep 2024 - Present

Production Android AI keyboard and overlay assistant · Claude + Firebase · Google Play

- Solo-built and shipped WittyKeys, a production Android AI keyboard and overlay assistant powered by Claude through Firebase, live on Google Play with a public product website and Play Store release pipeline.
- Led the Build 7.1 MVP pivot from broad AI keyboard prototype into focused AI reply assistant: redesigned onboarding, Home/setup states, Quick Reply Overlay, AI Keyboard actions, subscription/paywall flows, quota states, Play Store assets, and website copy.
- Implemented production LLM architecture across Android, Firebase Cloud Functions, Firestore, Claude API, Play Billing, entitlement verification, quota enforcement, and privacy-sensitive telemetry.
- Built release-confidence workflow covering automated UI/functionality checks, E2E AI integration, LLM-as-judge scoring, signed AAB verification, backend checks, and real-device regression.

AI-SDR - Human-In-Loop Outreach System

Jan 2026 - Present

Applied AI workflow system · Firebase Cloud Functions · Firestore · React/Vite · Claude

- Designed and built a full-stack human-in-loop outreach system with campaign setup, prospect workflow, LinkedIn intelligence, Claude-assisted draft generation, approval/regeneration queues, activity logs, and dashboard surfaces.
- Implemented Firebase Cloud Functions and Firestore service layers for workflow state, analytics counters, deduplication, client registry, auth-protected dashboard endpoints, and structured error handling.
- Kept final sends and account-sensitive actions human-approved while adding CORS, Firebase Auth, scheduling, deduplication, analytics, deployment checks, and browser E2E checks.

Mobile App Team Lead - OTTPlay via Wrocius / HT Media

Feb 2024 - Mar 2026

Remote, India · iOS + Android · OTT aggregation product at 10M+ download scale

- Led a 5-engineer mobile team supporting OTTPlay, a 10M+ download OTT aggregation product across iOS and Android.
- Owned mobile architecture decisions, code review, sprint planning, stakeholder communication, release coordination, and cross-platform feature delivery.
- Reduced video playback failure rate from 11% to 1.5% within 6 months by systematically diagnosing and fixing streaming edge cases across multiple OTT aggregator integrations.
- Optimized iOS and Android native video players for HLS/MPEG-DASH using AVPlayer, ExoPlayer, DRM, and IMA SDK, including custom native controls replacing web-based controls.
- Resolved excessive re-rendering issues across the React Native app, improving UI performance across a wide Android device range from low-end phones to flagship devices.
- Elevated team standards through code reviews, mentoring, performance-focused engineering, and sprint planning from engagement signals, release feedback, and product priorities.

Full-Stack Engineer - Independent / Agency Work

Dec 2017 - Jan 2024

Infinity Pillars, Accelerate Global, Steady Rabbit, independent engagements

- Shipped 8+ production applications across edtech, OTT/video streaming, ERP, logistics, and on-demand services using React.js, Next.js, React Native, Android, Node.js/NestJS, MySQL/MongoDB, AWS/Firebase, and web/mobile release workflows.
- Led teams of 3-6 engineers and worked directly with founders/product leaders on requirements, architecture, estimates, agile delivery, analytics, feedback, campaigns, and production support.

Android Developer - Assistech

Dec 2015 - Nov 2017

Native Android · Java · Play Store lifecycle

- Developed and deployed 3 production Android applications, building foundational expertise in native Android, Java, mobile UX, and Play Store release workflows.

SELECTED APPLIED AI WORK

Support Brain

Development-stage RAG support assistant with ingestion, retrieval, citations, confidence scoring, escalation, and knowledge-gap analytics.

Campaign Brain

Demo-seeded analytics-to-action system with campaign lifecycle, recommendations, live performance, A/B test analysis, and optimizer agents.

SFOS / Evaluation / Observability

Operating layer for AI product development: golden regression, E2E AI checks, LLM-as-judge scoring, privacy-sensitive traces, review gates, and verification-before-completion discipline.

EDUCATION & CONTINUOUS LEARNING

- Master in Arts (English).
- Bachelor in Arts (English).
- Self-directed AI engineering study across LLM architecture, RAG systems, multi-agent orchestration, AI system design, prompt engineering, structured outputs, and evaluation through current books, courses, and research.