Kunal Kumar Jha

Senior Software Engineer

kunatastic@gmail.com | linkedin.com/in/kunatastic | github.com/kunatastic

Summary

Software Engineer with 4+ years building consumer products and the distributed systems behind them: high-throughput notification pipelines, event-driven backends, and web/mobile apps. Currently lead a 6-engineer team at TagMango building BackstagePass, a live-first creator platform; previously Metaforms (AI automation) and three years at Kuddle (web, mobile, Kafka).

Technical Skills

Core Stack: TypeScript, Node.js (NestJS), React, Next.js, React Native, Python, PostgreSQL, REST APIs
Infrastructure: AWS (Multi-region), Terraform, Docker, CI/CD, Kafka, Redis/BullMQ, WebSockets, Microservices
AI Engineering: LLM Integrations, Agent Runtimes, RAG (pgvector), LLM Observability (Langfuse)

Experience

TagMango — Remote

Senior Software Engineer — *Mar 2026 – Present*

- **Technical Leadership:** Lead a 6-engineer team building backstagepass.com end-to-end; own architecture, delivery planning, and production health.
- **Personalized Communication at Scale:** Re-architected the notification pipeline from ~10 to **3,500+ messages/sec**, delivering **1M+ personalized emails and push notifications in under 5 minutes**.
- **Agentic Engineering Platform:** Built an in-house autonomous coding agent that ingests PM specs and design files and implements features end-to-end, cutting feature cycle time from 2 weeks to 2 days.

Metaforms — Bangalore, IN

Product Engineer — *Aug 2025 – Feb 2026*

- **Infrastructure Modernization:** Migrated manually provisioned infrastructure to a **multi-region AWS architecture** on **Terraform** with automated CI/CD, eliminating manual deployment risk and improving uptime.
- **AI Automation:** Built an AI-agent-driven survey generation tool for Qualtrics, reducing client project setup time from **16 hours to 4 hours** (4x).
- **Platform Ownership:** Owned the engineering roadmap for the Research Manager platform, streamlining questionnaire workflows for enterprise users.

Kuddle (acquired by Vetic) — Bangalore, IN

Founding Engineer — *Aug 2022 – Aug 2025*

- **Web Performance:** Architected the Kuddle web platform on Next.js (SSR + SSG), reducing **LCP by 1.2s** and contributing to a **17% uplift in organic conversions**.
- **Mobile Engineering:** Built the Kuddle Partner App with **Geofencing and Activity Recognition** for reliable, battery-efficient background location tracking.
- **Event-Driven Architecture:** Built a notification sync engine on **Kafka** handling **300K+ daily events**, with intelligent batching for reliable delivery under bursty load.
- **Revenue Impact:** Built a gamified Scratch Card engine integrated with payment flows, increasing GMV by **1.7%**.
- **Server-Driven UI:** Built an **SDUI system** letting non-technical teams ship UI updates via JSON config, removing engineering bottlenecks for campaigns.

Open Healthcare Network (formerly CoronaSafe) — Remote

Open Source Contributor — *Jan 2022 – Aug 2022*

- Improved UI accessibility for a platform used by **300+ healthcare workers**, reducing form submission errors by **22%**.
- Built an **OCR pipeline** extracting physiological data from ICU monitor feeds, enabling remote monitoring across **50+ ICU rooms**.

Education

Vellore Institute of Technology — 2019 – 2023

B.Tech in Computer Science and Engineering, CGPA: 9.22/10 — *Chennai, IN*