

Mohit Kumar

Software Engineer · AI & Systems Architecture

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SUMMARY

Backend and AI engineer who has shipped the full surface area of a production SaaS — API, MCP server, booking engine, plugins, integrations, client portal, and analytics — as a solo contributor on a 4-person engineering team serving **10,000+ users**. Brings a systems-first mindset to both infrastructure (distributed job queues, multi-tenancy, idempotent webhooks) and AI integration (RAG pipelines, AST chunking, LLM orchestration, MCP tooling).

WORK EXPERIENCE

Lunacal (lunacal.ai)

Sep 2025 – Present

Software Engineer

Scheduling platform · 10,000+ users · 4-person engineering team · sole owner of all features below

- Built the recurring-events and multi-slot booking engine **from scratch**, sharing one meeting link across multi-session packages and recurring series of **up to 20 slots** while working around Google Meet's per-link limits and enforcing consistency across every linked booking.
- Designed and shipped the end-to-end **client portal**: booking management, per-guest cryptographically unique access links, and **8+ customizable email templates** delivering personalized, branded transactional emails to attendees (thousands/month via AWS SES).
- Published **3 no-code plugins** — a **production Framer plugin** (live on the Framer Marketplace) plus WordPress and Webflow — enabling no-code embedding of LunaCal booking widgets without touching the core API.
- Integrated Google Tag Manager to propagate **10+ booking lifecycle events** (created, cancelled, rescheduled) into customers' own GTM containers for analytics and attribution.
- Shipped a bidirectional **HubSpot integration** and built the **Insights dashboard** surfacing **3 core metrics** — booking trends, no-show rate, and slot utilization — to paying customers.

Infoware India Pvt Ltd

Aug 2024 – Sep 2025

Full Stack Developer

- Developed core features including **Inspections, Schedules, Tasks, Issues, Documents**, and **Assets** for a production field operations platform using **Next.js, TypeScript**, and REST APIs.
- Built reusable components, integrated backend APIs, and implemented complex business workflows in collaboration with client stakeholders for a **SafetyCulture-inspired** enterprise application.

PROJECTS

RAG AI Code Reviewer

May 2026

TypeScript · Node.js · PostgreSQL · pgvector · Tree-sitter · OpenAI Embeddings · pg-boss

- Built a **GitHub App** that delivers codebase-aware pull-request reviews: rather than generic feedback, it retrieves the **top-5** most semantically similar functions from the repo so suggestions align with established patterns and conventions.
- Implemented the **complete RAG pipeline from scratch**: function-level AST chunking via Tree-sitter, **1536-dimension** OpenAI text-embedding-3-large vectors in pgvector, and cosine-similarity retrieval over a PostgreSQL knowledge base — no third-party RAG framework.
- Designed a **two-process** architecture (webhook receiver + async worker) bridged by a pg-boss job queue with idempotent processing, guaranteeing PR events are handled **exactly once** under retries or network failure.

TECHNICAL SKILLS

AI / RAG	RAG pipelines, Embeddings, Tree-sitter AST chunking, LLM, MCP, Eval Pipelines
Systems	Distributed systems, Webhook idempotency, Multi-tenancy, AES-256-GCM,
Backend	Node.js, TypeScript, Express.js, tRPC, Zod
Databases	PostgreSQL, pgvector, Redis, MongoDB
DevOps	Docker, AWS (EC2, SES), Turborepo, Git, Linux
Integrations	HubSpot API, Google Tag Manager, Framer / WordPress / Webflow plugins, Webhook design

EDUCATION

Jun 2025 **B.Tech, Information Technology** — Dr. A.P.J. Abdul Kalam Technical University (GPA: 8.25/10)