

Sumit Kumar

Noida, India | thedeceptio@gmail.com | +91 9650376719 | github.com/thedeceptio

SUMMARY

Senior Backend Engineer with 11+ years of experience building large-scale product backends from the ground up. Twice a founding engineer — designed and shipped the complete backend at both JobHai and TrulyMadly, including APIs, data pipelines, recommendation systems, payment integrations, and core infrastructure. At JobHai, sole architect of a system now serving 300K DAU at 10K RPS peak, built entirely from scratch. Strong depth in Node.js, MySQL at scale, Redis, and event-driven architectures, with hands-on ownership across the full stack from API design to production reliability.

EXPERIENCE

Tech Lead

Apr 2023 – Present

JobHai.com | A Naukri.com / InfoEdge Venture

- Sole backend architect for JobHai — designed and built the entire backend from scratch, now serving 300K DAU at 10K RPS peak load with no dedicated ops team.
- Designed MySQL master-slave architecture handling 60M API calls/day; reduced master QPS by 30% through read offloading, query-level optimisation, and schema partitioning strategies.
- Built and operate Kafka event pipelines processing 100M+ events/day, driving real-time job recommendations, notifications, and analytics — all systems designed from zero.
- Engineered real-time job suggestion APIs at ~1K RPS sustained, sub-200 ms p95 latency, using Redis caching layers and optimised query plans.
- Reduced recommendation pipeline runtime from 12 h → 1 h by redesigning the processing architecture, enabling 10M+ targeted push notifications daily.
- Built a text-to-SQL AI layer on top of core business data: LiteLLM + Gemini backend, React chat widget, and a semantic layer encoding all product KPIs — enabling non-technical stakeholders to query production data in natural language.
- Owned end-to-end reliability: designed alerting, resolved P0 incidents (AWS SES bounce crises, database failovers), and maintained uptime SLAs without a dedicated SRE function.

Lead Engineer

Sep 2019 – Mar 2023

JobHai.com | A Naukri.com / InfoEdge Venture

- Greenfield build of JobHai's backend — designed the service architecture, database schema, and API contracts from day one; all systems still in production today.
- Built the candidate/job recommendation engine from scratch: collaborative filtering + behavioural signals pipeline processing ~5M daily notifications, directly contributing to a 30% DAU growth.
- Built large-scale clickstream ingestion and behavioural analytics infrastructure that became the foundation for all ML feature generation at JobHai.
- Owned hiring and technical roadmap for a small sub-team; interviewed, onboarded, and mentored engineers on system design and backend best practices.

Backend Developer & Data Analyst

Mar 2014 – Aug 2019

TrulyMadly | Dating platform, 1M–5M users

- Founding backend engineer — designed and built the entire backend infrastructure for a dating platform that grew to 1M–5M users, including all core APIs, user matching logic, and data pipelines from scratch.
- Built the Recommendation Engine powering match suggestions end-to-end: hybrid collaborative filtering approach that improved engagement by 60% and eliminated cold-start starvation.
- Designed and implemented the full payments backend — subscription flows, premium feature gating, and transaction reporting — directly moving the product to break-even.

- Built internal reporting and analytics infrastructure from zero, giving business stakeholders first visibility into product and revenue metrics.
- Integrated and scaled AWS infrastructure (EC2, RDS, S3) to support rapid user growth.

SELECTED PROJECTS

- **JobHai Backend (2019–present):** Full greenfield backend for a B2B jobs marketplace — Node.js APIs, MySQL at scale (60M calls/day), Redis caching, Kafka pipelines, recommendation engine, notification infra, and analytics stack. Sole architect and engineer across all layers; system serves 300K DAU at 10K RPS peak.
- **Text-to-SQL Analytics Platform (2024–25):** Natural language query interface over ClickHouse — LiteLLM + Gemini 2.0 Flash backend, custom React widget embedded in Apache Superset, semantic layer encoding all core business KPIs and schema context.
- **TrulyMadly Backend (2014–2019):** End-to-end backend for a 1M–5M user dating platform — APIs, recommendation engine, payment gateway integration, premium feature gating, and internal reporting infrastructure, all built from scratch.

SKILLS

Backend	Node.js · Python · REST API design · event-driven architecture
Databases	MySQL (expert) · Redis · ClickHouse · query optimisation
Streaming	Kafka · CDC pipelines · Airflow
AI / ML	LiteLLM · Gemini API · text-to-SQL · recommendation systems
Infrastructure	AWS (EC2, RDS, S3, SES) · Docker · Kubernetes (exposure)
Payments	Payment gateway integration · subscription billing · transaction reporting
Familiar	Apache Iceberg · Trino/Presto · Elasticsearch · RabbitMQ

EDUCATION

B.Tech, Computer Science	2008 – 2012
Roorkee Engineering & Management Technology Institute	

HONORS & AWARDS

- Gold Award for Excellence, InfoEdge (2023) — for building the vernacular JobHai app.
- Employee of the Year, TrulyMadly (2018, 2019).