

Jatin Kumar Singh

Software Engineer

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Professional Experience

- Cropsly, Software Engineer 09/2022 – present | Zirakpur, India
- Built and maintained **microservices-based backend systems** to support high-availability and fault-tolerant applications.
 - Applied **clean architecture and SOLID principles** to structure modules for better scalability and long-term maintainability.
 - Implemented **automated unit and integration test suites** to improve reliability and reduce production regressions.
 - Worked with product and engineering teams to deliver optimised, production-grade solutions under tight deadlines.

Projects

- RunHotel 10/2022 – present
- Built **scalable backend services** using **Node.js and NestJS** to support hotel booking, inventory, and management workflows.
 - Implemented **Google Hotel Centre (Hotel Ads & Free Booking Links)** integration to improve listing visibility and pricing accuracy, resulting in a **50x increase in search-driven traffic**.
 - Developed a **real-time dynamic pricing engine** that adjusted room rates based on demand, seasonality, and booking trends, increasing revenue by up to **40%**.
 - Built an **OTA channel manager** to synchronise room availability and pricing across multiple platforms, preventing overbookings and inventory mismatches.
 - Automated **hotel website provisioning and deployment**, reducing onboarding time by **90%**.
- Momio 08/2024 – present
- Implemented **AI-powered content moderation pipelines** that reduced manual review workload and decreased reported content by **76%**.
 - Built intelligent **post categorisation and ranking systems** to improve feed quality and user engagement.
 - Developed **personalised content delivery** based on user interests and age-appropriate filtering.
 - Improved overall content visibility by **45%** using engagement-based ranking algorithms and trust scoring mechanisms.
 - Designed backend services to ensure fairness, scalability, and low-latency content delivery.

Skills

Languages: TypeScript, JavaScript, Java, Python

Frameworks & Libraries: Node.js, NestJS, React, Express.js, Socket.IO, FCM

Architecture & Security: Microservices Architecture, Clean Architecture, REST API Design, RBAC, ABAC

Databases: PostgreSQL, MySQL, MongoDB, Redis

Cloud & DevOps: AWS (EC2, S3, Lambda, ECS, CloudWatch), Docker, Jenkins, CI/CD, Git

Testing & Monitoring: Jest (Unit & Integration Testing), Sentry, Grafana, Logging & Observability

Others: Content Moderation Systems, Text Classification, Real-Time Systems, Performance Optimization

Education

- Master of Computer Applications, Chandigarh University2022 – 2024
- Bachelor of Computer Applications, National P.G. College2018 – 2021