

RAVI RANJAN KUMAR

Senior Software Engineer | Fullstack Developer (Backend Heavy)
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PROFESSIONAL SUMMARY

Backend-heavy Fullstack Engineer with 6+ years of experience building high-scale distributed systems across fintech, logistics, and social media domains. Expert in Node.js, React, and AI integrations. Built systems processing 1.5K+ requests/minute, designed AI chatbots generating Rs.50L+ in collections, and led teams delivering 20+ production applications. Passionate about system design, real-time architectures, and leveraging AI for business impact.

TECHNICAL SKILLS

Languages: JavaScript | **Backend:** Node.js, Express.js, REST APIs, GraphQL

Frontend: React.js, Redux | **AI:** Gemini, Vertex AI, OpenAI, Function Calling, Prompt Engineering

Databases: MongoDB, Redis, Elasticsearch, Firebase | **Messaging:** Kafka, SQS, RabbitMQ

Cloud: AWS (Lambda, EC2, S3, SQS, EKS), GCP, Docker, CI/CD | **Tools:** Git, Jira, Agile, Socket.io

PROFESSIONAL EXPERIENCE

Senior Software Engineer

International Asset Reconstruction Company (Blackstone Portfolio) | New Delhi | Apr 2024 – Present

- **Designed end-to-end AI loan recovery chatbot** using Gemini with multi-tool orchestration (settlement negotiation, payment integration, document delivery) — processed **5,000+ accounts** with **96% intent accuracy**, generating **Rs.50L+ collections**, **reducing agent workload by 30%**, and recovering **33% previously unreachable contacts**.
- **Architected Kafka event streaming system** handling 1,500+ requests/minute across 5+ consumer groups for payment webhooks, audit logging, and real-time campaign updates with exactly-once semantics.
- **Built high-throughput SQS queuing architecture** dispatching 400K–500K campaign tasks/day with DLQ support, exponential backoff retry strategies, and partial failure recovery.
- **Developed background workers** for database synchronization using MongoDB change streams, enabling real-time data replication and event-driven updates across microservices.
- **Optimized database performance** via stream-based batch writes, read replicas, index tuning, and denormalization — achieving p90 latencies under 200ms across critical APIs.

Software Developer (Team Lead)

Paras Technologies | Mohali, Punjab | May 2021 – Apr 2024

- **Led architecture and delivery of 20+ full-stack applications** across e-commerce, social media, logistics, and ride-hailing domains, managing team of 4–6 developers with hands-on technical leadership.
- **Built WorkUp** — professional video social platform with real-time video calls (Azure Communication Services) with live recording for AI-powered interview analysis (Vertex AI), live chat (Socket.io), and Firebase notifications.
- **Developed Cross Fader** — live radio streaming platform with Azuracast integration, handling concurrent streams, subscription billing (Stripe), and dynamic ad insertion.
- **Implemented AI features** including guided interview practice, resume analysis, and content moderation using Vertex AI and Google Video Intelligence API.

Software Development Engineer

Platform Tech Solutions | Panchkula, Haryana | Jan 2020 – Apr 2021

- Contributed to 4–5 full-cycle product builds in e-commerce, affiliate marketing, and restaurant booking domains using React, Node.js, GraphQL, and MongoDB.
- Built real-time features using Socket.io and implemented payment integrations with Stripe and Razorpay.

EDUCATION

Panjab University, Chandigarh — Bachelor of Engineering (2016 – 2020)