

# RAVI RANJAN KUMAR

Senior Software Engineer • Fullstack Developer (Backend Heavy)

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## PROFESSIONAL SUMMARY

**Backend-heavy Full Stack Engineer** with **5+ years of experience** designing **scalable, distributed systems** across **fintech, logistics, ecommerce, ride-hailing** and **social media** domains. Specializing in **monolithic and microservices architectures, real-time processing (Kafka, AWS Lambda)**, and **system optimization** for **high availability** and **throughput**. Experienced in **building products from scratch, leading teams**, and deploying **robust APIs** serving **millions of users**. Seeking a **Senior Software Engineer** role to contribute to **large-scale, high-performance platforms**, driving **innovation** and **efficiency**.

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Java, C , SQL

**Backend:** Node.js, Express.js, REST APIs, Multi-threading, Multiprocessing

**Frontend:** React.js, Redux, EJS

**Architecture:** Microservices, Event-Driven Architecture, Distributed Systems, High-Throughput Systems, Caching,

**Cloud:** AWS (Lambda, EC2, S3, SQS, SNS), GCP, Azure, Docker, CI/CD, GitHub Actions

**Databases:** MongoDB, Redis, ElasticSearch, Firebase, PostgreSQL

**Messaging:** Kafka, SQS

**Testing:** Mocha, Chai, Jest, Postman, Artillery

**AI/ML:** OpenAI APIs, Vertex AI APIs, Video Intelligence API

**Libraries:** Payments (Stripe, Razorpay, Cashfree), Communication (Sendgrid, Twilio, Agora, Socket.io), Security (JWT, RBAC, ABAC)

**Management:** Agile, Jira, Git, GitHub, GitLab, BitBucket, Confluence, Technical Mentorship, Code Reviews

## EXPERIENCE

### Senior Software Engineer (Technical Manager)

Apr 2024 – Present

International Asset Reconstruction company (**Blackstone Portfolio**) (Fintech, Loan Resolution Portal)

New Delhi

- **Architected a large-scale, distributed Kafka-based event processing system**, handling **15,000+ incoming requests per minute** across **5+ consumer groups** for mission-critical flows like **payment webhooks, audit logging, and campaign updates**. Ensured **real-time processing**, fault tolerance, and exactly-once semantics using partitioning and consumer isolation strategies.
- **Designed and implemented a custom state machine-driven funnel system** to track and transition loan accounts through multiple resolution stages. This enabled deterministic processing, better visibility, and decoupling of business logic from core services.
- **Developed a modular factory-pattern-based orchestration layer** to dynamically route requests to multiple third-party integrations including **payment gateways, SMS/email providers**, and internal services — all running as **stateless AWS Lambda functions** for scalability and failure isolation.
- **Built and optimized a high-throughput queuing architecture** using **Amazon SQS** and batch processing techniques to dispatch **400,000–500,000 campaign tasks per day** with DLQ support, retry backoff strategies, and partial failure recovery mechanisms.
- **Improved database query performance** and system responsiveness by applying **stream-based batch writes, read replicas with secondary preference, index tuning**, and **collection denormalization** — resulting in **p90 latencies under 200ms** across key APIs

- Technologies: **Node.js, Kafka, AWS (Lambda, SQS, CloudWatch, EC2), Redis, MongoDB, Microservices, Event-Driven Architecture, Java**

## Software Developer (Team Lead)

May 2021 – Apr 2024

Paras Technologies

Mohali, Punjab

- Led and architected over 20+ full-stack applications** from scratch across **ecommerce, social media, logistics, and ride-hailing** domains, ensuring scalable, maintainable, and performant codebases. Delegated development responsibilities while providing hands-on technical leadership to a team of 4–6 developers
- Implemented **AI-powered features** like guided interview practice and resume feedback using **Vertex AI** and **Google Video Intelligence AI**, enabling smarter, personalized user experiences.
- Notable projects: WorkUp (America's TikTok, with a professional twist), Doc Watch (logistics made easy)
- Technologies: Node.js, Express.js, EJS, MongoDB, socket.io, AWS, GCP, Azure

## Software Development Engineer

Jan. 2020 – Apr 2021

Platform Tech Solutions

Panchkula, Haryana

- Joined as a fresher and quickly ramped up on **JavaScript, Node.js, and full-stack development**, gaining hands-on experience with modern web technologies and scalable backend systems
- Contributed to **4–5 full-cycle product builds** in the **ecommerce, affiliate marketing, and restaurant booking** domains
- Notable projects: Cabaret (table booking app), Zoogol (social e-commerce platform)
- Technologies: React, React Native, Node.js, MongoDB, AWS, GraphQL, Socket.io

## PROJECTS

### WorkUp | America's TikTok, with a professional twist!

- WorkUp is the social network app that uses video to let you explore topic of interest, connect with other and get hired
- Implemented multiple functionalities such as social login, chatting, audio video call, guided interview, interview analysis using vertex AI, post analysis, firebase push notification, post promotion
- Technologies: Node js, Express js, MongoDB, AWS, Google cloud services, Vertex AI, Stripe

### Doc Watch | Logistic Made Easy

- Dock Watch is a cutting-edge web application tailored for truck drivers, offering a platform to rate, review, and access comprehensive information about shippers and receivers
- Implemented multiple functionalities such as social login, subscription, location based shipper search, profile verification like instagram
- Technologies: Node js, Express js, MongoDB, AWS, Stripe, Twilio

### Cross Fader | Cfader Radio

- Developed a platform which allows user to listen uninterrupted music.
- Implemented live streaming, subscription and ads functionalities
- Technologies: Node js, Express js, MongoDB, Azuracast, Stripe

### BooMe | Platform for gig worker

- Developed a platform which allow users to connect business, influencer and talent
- Implemented functionalities such as social login, chatting, stripe connect, subscription
- Technologies: Node js, Express js, MongoDB, Stripe

### Lifum | Fitness app

- Developed a platform which motivates user in their daily workout by giving coins as reward
- Implemented product variant management, cart management, razorpay and analytics data
- Technologies: Node js, Express js, MongoDB, Razorpay, Firebase

### Direct Reunion | The live weather and traffic app

- Developed a platform which allow user to access public camera such as traffic camera, wether camera using app
- implemented cctv camera video url, user referral, in app purchase, social login, google analytics
- Technologies: Node js, Express js, MongoDB, In app purchase

## EDUCATION

### Panjab University

Bachelor of Engineering

Chandigarh

June 2016. – June 2020