

KAPIL MEHTA

LEAD BACKEND SOFTWARE ENGINEER | DISTRIBUTED SYSTEMS | AWS | SAAS

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PROFESSIONAL SUMMARY

Lead backend/platform engineer and technical leader with 10+ years building distributed systems, APIs, data pipelines, and cloud infrastructure across SaaS, FinTech, and startups. At Chargebee, owns platforms processing 40M+ events/day across 60+ modules and 10+ teams, with hands-on ownership of AWS architecture, reliability, observability, incident response, and engineering standards. Earlier built Java REST APIs and clinical-data workflows for SaaS applications serving Indian and US customers; former CTO who led a 10-engineer team and scaled a product to 200K+ users.

PROFESSIONAL EXPERIENCE

- Lead Software Engineer**
Chargebee Technologies Pvt. Ltd.
Remote, India

Oct 2021 - Present

Progression: Senior Software Engineer -> Principal Software Engineer -> Lead Software Engineer
 - Own the architecture and evolution of an enterprise Queue Framework, a language-agnostic gRPC abstraction over SQS, SNS, and Kafka; scaled it to 40M+ events/day across 60+ modules, 10+ teams, and 20+ engineers.
 - Designed AWS-native data architecture using ECS, SQS, SNS, Kafka, Lambda, S3, and RDS; built a ClickHouse OLAP proof of concept with partitioning, materialized views, and denormalized models.
 - Built AI-ready data pipelines that transform operational events into structured knowledge for vector databases, RAG, and LangGraph agents supporting search, incident investigation, and automation.
 - Reduced webhook trigger latency from about 6 seconds to 200 milliseconds and cut production deployment from about 2 hours to 3 minutes through pub-sub, parallel rollout, and startup optimization.
 - Architected a cross-shard, cross-region Job Recovery Platform; automated queue provisioning and plan generation through Terraform-based CI/CD and Dockerized local development.
 - Served as the Platform team's primary POC for major incidents, bringing a customer-first mindset to incident response; restored queue, job, and webhook workloads within about 3 hours during a major AWS disruption and drove an ECS redesign after identifying Lambda concurrency constraints.
 - Directed technical ownership across Queue, Audit, Utilities, and selected Core components; authored design docs, reviewed 400+ PRs, mentored 3-4 engineers, and advised 30+ engineers.
- Senior Software Engineer (Contract)**
Novopay Solutions Pvt. Ltd.
Remote, India

Dec 2020 - Oct 2021

- Built secure Java / Spring Boot multi-tenant banking services and API Gateway integrations for M2P wallet, Razorpay payments, and IDFC Bank eKYC workflows.
 - Resolved wallet-to-payment synchronization and reconciliation issues with emphasis on idempotency, security, and integration reliability.
- Principal Software Engineer**
Kadel Labs Pvt. Ltd.
Udaipur, India

Jun 2020 - Nov 2020

- Architected OkayGo's end-to-end backend, defining APIs, domain boundaries, deployment architecture, and engineering standards; the platform was later acquired by BetterPlace.
 - Designed the workforce matching engine and scalable Java / Spring Boot services; strengthened delivery through architecture guidance, mentorship, and code review.
- CTO & Co-Founder**
Gohiggs Pvt. Ltd.
Udaipur, India

Jul 2017 - May 2020

- Designed and owned the scalable solution end to end, including AWS architecture and core backend systems; co-founded and scaled the real-time social platform to 200K+ registered users, helped secure INR 10M in funding, and led a 10-engineer team.
 - Built self-managed live-streaming infrastructure for about 500 concurrent viewers and delivered on-device computer-vision features using TensorFlow Lite.
- Java Developer**
Deerghayu Lifestyle Pvt. Ltd.
Udaipur, India

May 2016 - Jun 2017

- Developed Java REST APIs and clinical-data workflows for SaaS applications serving Indian and US customers.

CORE EXPERTISE

- Backend Architecture & Design
- Distributed Systems
- REST & gRPC APIs
- Enterprise Software
- Event-Driven Systems
- Data Pipelines
- AWS Cloud Infrastructure
- Reliability & Observability
- Technical Leadership

TECHNICAL SKILLS

- Languages**
Java, Go, TypeScript, JavaScript, PHP
- Backend Services**
AWS | Spring Boot, Microservices, REST APIs, gRPC, asynchronous workflows, multi-tenant SaaS
- Cloud & Data**
AWS ECS, EC2, SQS, SNS, Lambda, S3, RDS, DynamoDB, Kafka, ClickHouse
- Infrastructure**
Terraform, Docker, CI/CD, CloudWatch
- Observability**
OpenTelemetry, Datadog, Splunk, Grafana, Incident Response
- AI & CV**
TensorFlow Lite, vector-DB workflows, RAG, LangGraph, Claude, Cursor, ChatGPT

BACKEND & AI EXPERIENCE

- SaaS Backend Systems**
Java REST APIs and data workflows for SaaS applications serving Indian and US customers.
- Secure Enterprise Systems**
Banking, wallet, payment, and eKYC integrations with idempotency, reconciliation, and integration reliability.
- AI-Enabled Systems**
AI-ready operational data pipelines plus TensorFlow Lite computer-vision integration.
- Reliability at Scale**
40M+ events/day, cross-region recovery, observability, incident response, and deployment automation.

EDUCATION & LEADERSHIP

- Bachelor of Technology**
Computer Science & Engineering
Rajasthan Technical University | 2012 - 2016
- 70+ Technical Interviews**
Practical problem solving and system design.
- 400+ PR Reviews**
Code and architecture reviews focused on reliability and maintainability.
- Engineering Mentorship**
Mentored 3-4 engineers and advised 30+ engineers across teams.