KAPIL MEHTA

LEAD BACKEND & PLATFORM ENGINEER | DISTRIBUTED SYSTEMS | AWS | SAAS

Software Engineer with experience in designing scalable SaaS platforms, AWS architectures, event-driven systems, high-throughput data pipelines, and reliable backend ecosystems. Targeting leadership opportunities in Software Engineering, Platform Engineering, Backend Engineering, with product-based organizations.

CONTACT

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CORE COMPETENCIES

Platform Engineering & Architecture
Backend Architecture & Engineering
Distributed Systems
Cloud-Native & AWS Architecture
Microservices & API Architecture
Event-Driven Systems
Scalability & Performance Engineering
SaaS Platform Engineering
Asynchronous Processing & Observability
Data Pipeline & Event Processing
Platform Modernization & Strategy

TECHNICAL SKILLS

Programming Languages: Java, Go, Node.js
Backend Development: Spring Boot, REST APIs, gRPC, Asynchronous Processing, Multi-Tenant SaaS
Cloud & AWS: AWS, ECS, EC2, SQS, SNS, Lambda, S3, RDS, DynamoDB
Messaging & Data: Kafka, ClickHouse, Data Pipelines, Event-Driven Architecture
Infrastructure & DevOps: Terraform, Docker, CI/CD
Observability & Monitoring: OpenTelemetry, CloudWatch, Datadog, Splunk, Grafana
AI & Machine Learning: TensorFlow Lite, Vector Databases, RAG, LangGraph
Reliability & Operations: Incident Response, Production Reliability, Cross-Region Recovery
AI Development Tools: Claude, Cursor, ChatGPT

PROFILE SUMMARY

- Strategic Backend & Platform Engineering professional with over 10 years of experience architecting distributed systems, cloud-native platforms, scalable APIs, data pipelines, and SaaS ecosystems across product, FinTech, and startup environments.
- Proficient in **distributed systems, event-driven architecture, Microservices, gRPC, asynchronous processing, queue frameworks and API architecture**, with a focus on building high-performance backend platforms.
- Experienced in **AWS architecture and cloud-native engineering**, leveraging services and frameworks across compute, messaging, storage, databases, infrastructure automation, containerization and CI/CD.
- Skilled in **platform reliability, observability, performance engineering, incident response, cross-region recovery, and deployment optimization**, with a customer-first approach to resolving complex production and architectural challenges.
- Hands-on technical depth with **architecture ownership, technical strategy, engineering standards, design documentation, code reviews, mentoring, and cross-team technical advisory**, enabling effective leadership.
- Expertise across **backend engineering, SaaS platforms, FinTech integrations, real-time systems, AI-enabled solutions and cloud architecture** with a strong focus on translating complex technical requirements into scalable, business-aligned engineering solutions.

WORK EXPERIENCE

Lead Software Engineer | Oct'21 – Present | Chargebee Technologies Pvt. Ltd. | Remote, India
Career Progression: Senior Software Engineer → Principal Software Engineer → Lead Software Engineer

- Designed and evolved a Queue Framework featuring a language-agnostic gRPC abstraction over SQS, SNS, and Kafka, supporting **40M+ events/day** across **60+ modules, 10+ teams, and 20+ engineers.**
- Steered AWS-native data architectures leveraging ECS, SQS, SNS, Kafka, Lambda, S3, RDS and developed a ClickHouse OLAP proof of concept incorporating partitioning, materialized views, and denormalized data models.
- Developed POC work that convert operational events into structured knowledge for vector databases, RAG, and LangGraph agents, enabling search, incident investigation, and automation use cases.
- Accelerated platform performance and delivery velocity by optimizing pub-sub processing, parallel rollout mechanisms, and application startup, reducing webhook latency from **6 seconds to 200 milliseconds** and deployment cycles from **2 hours to 3 minutes**.
- Designed cross-shard, cross-region Job Recovery Platform and streamlined queue provisioning and recovery-plan generation through Terraform-based CI/CD, and Dockerized local development.
- Spearheaded platform incident response as the primary point of contact for major incidents, restoring queue, job, and webhook workloads within 3 hours during a major AWS disruption and leading an ECS redesign to address Lambda concurrency constraints.
- Provided technical direction across Queue, Audit, Utilities, and selected Core components, establishing architecture standards through design documentation, conducting **400+ code and architecture reviews**, mentoring **3–4 engineers**, and providing technical guidance to **30+ engineers.**

Senior Software Engineer (Contract) | Dec'20 – Oct'21 | Novopay Solutions Pvt. Ltd. | Remote, India

- Engineered secure, multi-tenant banking services using Java and Spring Boot, integrating API Gateway capabilities with M2P wallet, Razorpay payment, and IDFC Bank eKYC workflows.
- Strengthened wallet-to-payment synchronization and reconciliation processes by implementing idempotency, security controls, and integration reliability practices.

Principal Software Engineer | Jun'20 – Nov'20 | Kadel Labs Pvt. Ltd. | Udaipur, India

- Defined the end-to-end backend architecture for OkayGo, establishing API design, domain boundaries, deployment architecture, and engineering standards; the platform was acquired by BetterPlace.
- Engineered the workforce matching engine and scalable Java/Spring Boot services while providing architecture guidance, technical mentorship, and code-review leadership.

SOFT SKILLS

Technical Leadership & Mentoring
Strategic Problem Solving
Stakeholder & Cross-Functional Collaboration
Architecture Decision-Making
Continuous Improvement
Communication & Technical Advisory

EDUCATION

Bachelor of Technology (B.Tech.)
Computer Science & Engineering
Rajasthan Technical University **| 2016**

PERSONAL DETAILS

Languages: English, Hindi
Address: Udaipur, Rajasthan, India

Java Developer | May'16 – Jun'17 | **Deerghayu Lifestyle Pvt. Ltd. | Udaipur, India**

- Implemented Java-based REST APIs and clinical-data workflows for SaaS applications supporting customers across Indian and US markets.

ENTREPRENEURIAL EXPERIENCE

CTO & Co-Founder | Jul'17 – May'20 | **Gohiggs Pvt. Ltd. | Udaipur, India**

- Spearheaded end-to-end technology strategy and solution architecture, including AWS infrastructure and core backend systems, while co-founding and scaling a real-time social platform to **200K+ registered users**.
- Contributed to securing **INR 10M in funding** and **directed a 10-engineer team**, providing technical leadership across product development and platform engineering.
- Established self-managed live-streaming infrastructure supporting **500 concurrent viewers** and introduced on-device computer-vision capabilities using TensorFlow Lite.

NOTABLE ACCOMPLISHMENTS

- **Accelerated webhook processing** by redesigning the event flow with a queuing framework and removing an additional processing hop, reducing end-to-end webhook latency from **6 seconds to 200 milliseconds**.
- **Transformed deployment efficiency** by optimizing database operations, queue framework performance, service startup times, and deployment sequencing, reducing deployment time from **2 hours to 3 minutes** and enabling **daily RC builds** instead of only 1–2 builds.
- **Strengthened AWS platform resilience** by designing a **cross-region failed-job management and recovery platform** that consolidated failed jobs across regions and Microservices, enabling the Cloud Platform team to centrally reschedule workloads following major AWS service disruptions.
- Showcased strong engineering governance and technical leadership through **70+ technical interviews, 400+ PR reviews**, architecture/code and mentored 3–4 engineers while providing technical guidance to **30+ engineers across teams.**
- Delivered scalable SaaS and enterprise backend solutions spanning Java REST APIs, data workflows, banking, wallet, payment, and eKYC integrations, with emphasis on **idempotency, reconciliation, security, and integration reliability** across Indian and US customer environments.
- Advanced AI-enabled engineering skills by developing AI-ready operational data pipelines for structured knowledge workflows and integrating **TensorFlow Lite-based computer vision** into product platforms.
- **Strengthened reliability and scalability at platform scale** by supporting **40M+ events/day**, engineering cross-region recovery capabilities, advancing observability and incident response practices.