

Harshit Raj

Backend-focused Full-Stack Engineer with 3 years of experience owning **distributed systems** and **Kafka-based pipelines**, with strong expertise in **React/Next.js**.

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WORK EXPERIENCE

Software Development Engineer I FTC — Amazon

Oct 2025 – Present

Amazon — Java, Spring Boot, Docker, AWS Lambda, AWS CDK, CI/CD

Gurugram

- Owned a major cost optimization initiative by leading stale event purging: enforced **30-day TTL** across DynamoDB tables, reduced footprint 24GB → 600MB (24×), eliminated false-positive alerts, and saved significant cloud storage costs.
- Owned backend services for **order exchange, returns, and OTP delivery**, handling end-to-end production incidents including service connectivity issues, queue delays, and timeouts.
- Containerized a 250MB+ Lambda service into **Docker**, improving deployment consistency and reducing cold-start latency by 40%.
- Led migration of a monolithic Lambda service to **AWS CDK (IaC)**, defining requirements, collaborating with QA on Gamma integration tests, and ensuring robust pre-production validation for high-stakes releases.
- Established production observability and governance standards by implementing **CloudWatch retention policies** via CDK and mentoring engineers on logging, monitoring, and cross-service API best practices.
- Mentored engineers and influenced API design across teams to improve reliability and integration of backend microservices.

Software Engineer

Mar 2023 – Sep 2025

AdPushup — Java, React, Next.js, Spring Boot, Kafka, SQL, Couchbase, Jenkins,

New Delhi

- Owned and engineered a **Kafka-based feedback platform** processing 3.2B+ daily events, delivering high reliability and fault tolerance and enabling real-time analytics for ad performance.
- Built and owned a **Next.js/React-based reporting dashboard** on top of a multi-threaded ingestion pipeline for Google Ad Manager data, reducing processing lag by 90% and enabling self-serve report generation and exports for internal teams.
- Owned the design and implementation of a **Kafka Streams anomaly detection service** processing high-volume event streams to detect real-time traffic deviations at scale.
- Built a Prometheus + Grafana + PagerDuty observability stack, improving **MTTR by 50%**.
- Built an in-house Instream Video Player as part of a **3-engineer core team**, integrating Video.js and Prebid.js for client-side header bidding, with builds orchestrated via Webpack, Couchbase, and RabbitMQ.
- Shipped ad-delivery optimizations improving auction efficiency at scale, contributing to a **20% average eCPM lift** across key ad units.
- Built a geo-distributed E2E QA pipeline using Cypress and Jenkins, reducing manual QA effort by 80%.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Golang, SQL **Technologies:** React, Spring Boot, Hibernate, Node.js, Kafka Streams

Databases: PostgreSQL, MongoDB, Couchbase, Redis **Message Queues:** Kafka, RabbitMQ

DevOps & Tools: CI/CD, Jenkins, Docker, Git, Terraform, Airflow, Prometheus, Grafana, Alertmanager, Log4j2

Cloud Platforms: AWS, Oracle Cloud (OCI) **Other:** Data Structures & Algorithms

PROJECTS

AI Powered Short-Video Automation Tool | *Node.js, LangChain, FFmpeg*

June 2024 – Individual Project

[LinkedIn Post for Demo](#)

- Built a **CLI-based AI short-video automation tool** generating Instagram Reels/YouTube Shorts in < 1 minute using **Node.js, LangChain, Whisper, ElevenLabs, and parallelized FFmpeg rendering**.

ACHIEVEMENTS AND HONORS

1800+ Rated on Leetcode, 800+ Problems Solved on Leetcode ([Profile Link](#))

Specialist (Max Rating 1418) at Codeforces ([Profile Link](#))

Open-Source Contributor — **Node-Cron** (13M+ weekly downloads), contributed production-grade features following maintainer review and backward-compatibility standards ([PR Link](#))

EDUCATION

KIET Group of Institutions

B. Tech. in Computer Science and Information Technology (CGPA: 8.15)

Ghaziabad

August 2019 – July 2023