

Kapil Badgujjar

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Professional Summary

Cloud & DevOps-focused Software Engineer automating infrastructure on AWS. Track record architecting zero-touch provisioning pipelines, building CI/CD on ECS Fargate for zero-downtime releases, cutting cloud costs by 20%, and hardening systems to 99.9% uptime.

Technical Skills

Languages: TypeScript, Python, C++

Cloud & DevOps: AWS (EC2, ECS Fargate, S3, Route 53, SQS, Lambda, SES, EventBridge), Docker, CI/CD, Nginx

Architecture & Concepts: Event-Driven Architecture, Multi-tenant Systems, REST/GraphQL APIs, DSA

Databases: PostgreSQL, MongoDB, MySQL, Redis

Frameworks: React, Next.js, Express.js, Node.js, Prisma

Experience

Software Engineer

Rancholabs, IIT Delhi

May 2024 – Present

New Delhi, India

- Architected a zero-touch Node.js provisioning pipeline using AWS SDK to dynamically deploy Dockerized environments on EC2, reducing new LMS setup time from **over 24 hours to under 30 minutes**.
- Engineered an automated resource scheduler utilizing **AWS EventBridge** and **Lambda** to hibernate EC2 services during off-peak hours, slashing cloud infrastructure costs by **15–20%**.
- Implemented a complete **CI/CD pipeline** using **GitHub Actions** and **AWS ECS Fargate**, enabling zero-downtime deployments and accelerating feature release cycles.
- Deployed **AWS WAF** to mitigate DDoS attacks and secure endpoints via a robust API gateway architecture, ensuring **99.9% system uptime**.
- Integrated an event-driven payment workflow linked to inventory data using **AWS Lambda, SQS, SES, and S3**, automating receipt generation and eliminating **90% of manual processing efforts**.
- Built a high-performance video optimization pipeline to convert content to HLS format, reducing load times by up to **60%**.
- Architected a role-based Inventory Management System with granular access control for courses and centers, reducing operational dependency by **30%**.
- Managed and enhanced a multi-tenant LMS hosting **30+ schools** on AWS; optimized APIs and redesigned the frontend, driving a **25% increase in monthly active users**.
- Designed an automated lead capture and event-driven email workflow, increasing lead conversion rates by **20–25%** and reducing missed follow-ups by **60%**.
- Led end-to-end development of **Kirakits (E-commerce MVP)**, launching the platform in just **30 days** and successfully processing **500+ orders** within the first month.

Projects

Learning Management System

[Live Demo](#)

Personal Project — FastAPI, Next.js, PostgreSQL, Cloudflare R2

- Built a **multi-tenant** LMS with organization-scoped data isolation, dual-axis role-based access control (3 platform + 3 org roles), and JWT cookie auth with admin impersonation; enforced fail-closed tenant isolation at the ORM layer via SQLAlchemy session listeners.
- Engineered snapshot-on-publish course versioning and a polymorphic assessment engine (quizzes/assignments across course, class, section, and per-student scopes); added presigned Cloudflare-R2 uploads, certificates, notifications, and **120+ automated tests**.

Education

Maharshi Dayanand University

Master of Computer Applications (MCA)

Rohtak, Haryana

Sept 2021 – Jul 2023

Maharshi Dayanand University

Bachelor of Computer Applications (BCA)

Rohtak, Haryana

Aug 2018 – Jul 2021

Achievements

Star Developer Award | *Rewards and Recognition*

Oct 2025

Invited as a technical judge for school-level coding & innovation event | *Jaipuria School, Melange*

2025