

Sagar Yadav

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PROFILE

- Backend engineering leader with 8+ years of experience building scalable backend platforms, distributed systems, event-driven services, and mission-critical operational software
- Hands-on technical leader across architecture, API design, workflow orchestration, asynchronous processing, observability, reliability engineering, cloud infrastructure, and performance optimization
- Experienced in leading engineering teams, mentoring engineers, driving cross-functional execution, stakeholder/vendor management, incident response, and technical roadmapping
- Impact includes building Zepto's Automation Engineering function from inception, rolling out automation across 12 Mother Hubs, and delivering ~40% cloud cost reduction at Unacademy

EXPERIENCE

Zepto

Bengaluru, India

Senior Software Development Engineer (SDE-3) / Automation Engineering Lead

Nov 2024 – present

- Built Zepto's Automation Engineering function from inception, establishing engineering ownership, operational processes, vendor strategy, monitoring standards, and delivery execution
- Rolled out automation across 12 Mother Hubs, supporting a significant share of fulfillment workflows
- Led integration of warehouse automation systems with Zepto WMS for scalable and reliable fulfillment operations
- Architected event-driven inventory synchronization and reconciliation workflows between Zepto WMS and automation systems, improving inventory correctness and failure recovery
- Acted as the primary engineering interface across Product, Operations, Business, and external automation partners, translating warehouse challenges into scalable automation solutions
- Leading a 6-engineer Mother Hub automation team, driving technical reviews, mentoring, sprint planning, on-call handovers, escalations, SOPs, and delivery ownership

Tech stack: Go, Temporal, Kafka, PostgreSQL

Unacademy

Bengaluru, India

Principal Engineer

Oct 2019 – Oct 2024

- Led CRM engineering for ~2k sales users, owning backend workflows and platform reliability
- Drove infrastructure cost optimization for Unacademy web services, reducing cloud spend by ~40%
- Migrated core backend servers from EC2 to Kubernetes for scalability, availability, and infrastructure management
- Built UAM (Unacademy Authorization Management) to centralize authorization for internal and external users
- Owned notification and authorization platforms, observability, API/SQL performance, production availability, scaling, and security

Tech stack: Python, Django, Golang, Docker, Kubernetes, AWS, MySQL, Jenkins, Ansible

Kruizr Smart Driving Assistant

Bengaluru, India

Backend Engineer

- Architected backend services for sensor data processing and driving behavior personalization
- Migrated monolithic services to microservices and implemented asynchronous stream processing for low-latency notifications

Tech stack: Python, Flask, JavaScript, Node.js, Pub/Sub, Kafka, Docker, Kubernetes, GCP, AWS, MySQL

Platform Engineer

- Architected infrastructure for video recording ingestion, cloud uploads, and stream processing
- Built CloudFormation deployment automation across AWS/GCP infrastructure while managing resource dependencies

Tech stack: Python, Flask, Pub/Sub, Docker, Kubernetes, GCP, AWS, CloudFront, CloudFormation, ffmpeg

TECHNICAL SKILLS

Architecture & Systems: Distributed systems, event-driven architecture, workflow orchestration, microservices, API design

Domain / Reliability: Warehouse automation, fulfillment systems, inventory reconciliation, observability, incident management

Cloud / Platform: AWS, GCP, Kubernetes, Docker, Jenkins, CloudFormation

Languages: Go, Python, Bash

Databases: PostgreSQL, MySQL, Redis

Messaging / Workflow: Kafka, Temporal, SQS, Pub/Sub

Leadership & Execution: Engineering leadership, cross-functional leadership, technical roadmapping, vendor management, incident management, team building

EDUCATION

Indian Institute of Technology, Kanpur

Kanpur, India

Bachelor of Science

2014 – 2018

EXTRACURRICULAR ACTIVITIES

Inter IIT Sports Meet 2017, IIT Madras

Bronze Medal in Pole Vault

Inter IIT Sports Meet 2016, IIT Kanpur

Silver Medal in Pole Vault

Udghosh 2016, IIT Kanpur

Silver Medal in Pole Vault

District Meet 2017, Kanpur

Silver Medal in 110m Hurdles

Sangram 2017, IIT Roorkee

Gold Medal in Pole Vault

Aahvaan 2018, IIT Bombay

Gold Medal in Pole Vault

HOBBIES AND INTERESTS

Sports Enthusiast, Football, Badminton, Squash

Outdoor Activities, Trekking, Biking