

Rahul Indra

indrarahul2018@gmail.com — +44 7500 938206

linkedin/in/indrarahul

Senior Software Engineer – Infrastructure & Distributed Systems

Summary

Senior Software Engineer with 5+ years of experience building and operating large-scale distributed systems at Big Tech scale. Specialized in infrastructure reliability, cost governance, and observability platforms supporting \$1B+ annual spend. Proven track record in delivering \$200M+ cost savings, reducing severe production incidents, and leading cross-team initiatives on ML, streaming, and data platforms.

Experience

Meta Platforms, Inc.

London, UK

Production Engineer (Senior+ level scope)

Nov 2021 – Present

- Leading a 6-person engineering team in Scribe (Meta’s distributed log and messaging system) org owning billing and cost models for real-time data streaming platforms governing **\$1B+** in annual infrastructure spend and processing **hundreds of terabytes of data per second**, enabling efficient customer usage through accurate billing, cost-aware quotas, and criticality-based traffic degradation—prioritizing revenue-critical workloads and driving measurable revenue uplift.
- Built a centralized metadata service for ML training features spanning **10+ systems**, including real-time streaming platforms, enabling producer–consumer awareness, smart caching, filtering, and real-time feature reaping. This reduced redundant computation and data movement, delivering approximately **\$200M in annual cost savings** with an additional **\$200M+** in savings scoped.
- Built a production-traffic simulation and replay service that executes representative traffic snapshots in a sandbox environment to augment unit and integration testing for complex, multi-component server–client systems. The platform enabled continuous simulations as well as on-demand, developer-driven replays during development, allowing bugs to be caught earlier in the lifecycle. As a result, severe production incidents were reduced from **10+** to **1–2 per month**, significantly lowering data loss, data corruption, and revenue impact.

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Mumbai, India

Software Engineer (SRE)

Jul 2020 – Nov 2021

- Owned reliability, scalability, and operations for ad-serving and analytics platforms processing billions of requests per day.
- Operated and scaled large Hadoop, Druid, Kafka, and Elastic Stack deployments supporting real-time BI and revenue reporting.
- Built unified observability and led reliability initiatives that reduced operational toil by **60%**, saved **\$3M+** annually in on-call and infrastructure costs, and drove a sustained **2–3%** uplift in ad revenue.

CERN (European Organization for Nuclear Research)

Geneva, Switzerland

Google Summer of Code 2020 Student Developer

May 2020 – Aug 2020

- Architected and implemented an intelligent monitoring and alerting platform for CERN’s CMS distributed computing infrastructure serving **thousands** of researchers worldwide.

- Led cross-institution alignment on system design and implementation, enabling adoption of a shared Kubernetes-based monitoring stack.
- Automated alert correlation and silencing to reduce operational toil and improve the scalability and long-term evolution of production monitoring. - [GSoC Link](#) [Journal Link](#)

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Software Engineering Intern

Mumbai, India

Dec 2019 – Jan 2020

- Designed disk performance and utilization monitoring with predictive alerting for production clusters.
- Built anomaly detection pipelines that proactively prevented multiple revenue-critical outages, saving an estimated **1,000+** engineering hours annually.

Xelpmoc Design & Tech

Software Engineering Intern

Kolkata, India

May 2018 – Jun 2018

- Built location intelligence and store prediction frameworks using DBSCAN clustering and Google POI APIs.
- Influenced expansion strategy decisions with projected **10% revenue uplift** for partner businesses.

Publications

- The evolution of the CMS monitoring infrastructure - [Link](#)
- Breaking Captcha System with Minimal Exertion through Deep Learning: Real-time Risk Assessment on Indian Government Websites - [Link](#)

Education

Indian Institute of Engineering Science and Technology Shibpur

B.Tech in Computer Science & Technology

Shibpur, India

Jul 2016 – Jul 2020

Achievements & Leadership

- Secured 9th position in India in picoCTF 2018 (Carnegie Mellon University).
- Founder of d4rks0c1ety CTF team; mentored students in systems and security engineering.
- Ex-General Secretary of CodeIEST, leading technical initiatives for 300+ students.
- Founded and scaled an e-commerce startup to 1500 daily users; winner of 2 business plan competitions.