

Sudhir Kumar

Senior Software Engineer
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SUMMARY

Senior Software Developer with 5+ years of experience in building scalable systems and **microservices**. Proven expertise in leading teams, driving innovation, and delivering high-quality solutions in fast-paced environments. Skilled in designing and optimizing backend architectures using **Node.js**, Go, and Python, with a strong emphasis on ownership and accountability.

WORK EXPERIENCE

- **Allen Digital** Dec 2023 – July 2024
Software Development Engineer 2 Gurugram
 - Spearheaded design and development of in-house **Deeplink** service, achieving 99.9% reliability and reducing costs by **70%** through efficient architecture.
 - Led **Library** service migration to **microservices architecture**, improving scalability and increasing video views by **7%** through optimized design while mentoring team members.
- **Doubtnut(Acquired By Allen Digital)** Feb 2019 – Nov 2023
Software Development Engineer Gurugram, Haryana
 - Built a real-time query resolution system using **Kafka and OpenAI** during video watch, enhancing user experience and generating **40-50k** in daily revenue.
 - Designed and implemented an **advertisements** system with strategic placement optimization, generating consistent revenue of **1-1.5** lakh per day.
 - Owned and architected a **video recommendation** platform based on user watch history, trending content, and similar user behavior, resulting in a **3%** increase in engagement.
 - Engineered end-to-end **course delivery** platform with video lectures, assessments, and analytics, driving 40% increase in user engagement. Implemented comprehensive progress tracking and content management system, generating **8-10** lakh daily revenue.
 - Developed automated **PDF** generation system with personalized study materials, improving content accessibility.
 - Implemented a **search service** using **ElasticSearch**, enhancing content discovery and improving engagement by **3-4%**, while providing easier access to content..
 - Designed unified **popup** architecture and revamped **homepage** with dynamic content, improving CTR by **4-5%**.
 - Led technical discussions and code reviews, establishing robust monitoring infrastructure with **Grafana**, **Prometheus**, and **Datadog**, ensuring high service uptime and rapid incident response.

EDUCATION

- **IIIT - Delhi** Aug 2014 – Dec 2018
Bachelor of Technology in Computer Science

SKILLS

- **Languages & Frameworks:** JavaScript, Node.js, Typescript, Python, Express.js, Fastify, Fast API
- **Databases :** MySQL, MongoDB, Redis, ElasticSearch, Cassandra, Database Design
- **Technologies:** Apache Kafka, System Design, Docker, Microservices, AWS(S3, EC2, CDN, RDS), Monitoring (Grafana, Prometheus)
- **Leadership:** Technical Mentoring, Code Reviews, Incident Management, Team Collaboration