GAGAN S

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SUMMARY

Backend engineer with 2 years building distributed systems in Go and Python on AWS. Skilled in API design and data modeling, with experience across video transcoding pipelines, payment infrastructure, and observability at 4.5M+ asset scale.

EDUCATION

B.E. Information Science and Engineering, Dayananda Sagar College of Engineering 2024
CGPA: 9.64

SKILLS

Languages:	Go, Python, JavaScript
Backend & Databases:	Gin, GORM, Django, FastAPI, Flask, NodeJS, SQL (PostgreSQL), NoSQL (MongoDB, Redis)
Cloud & DevOps:	AWS (EC2, Lambda, S3, Elemental, DynamoDB), Docker, OpenTelemetry, Prometheus, Graphana
AI/ML:	TensorFlow, LangChain, HuggingFace, RAG
Systems & Tools:	REST APIs, gRPC, WebSockets, SSE, Microservices, Celery, RabbitMQ, FFmpeg

EXPERIENCE

Full Stack Engineer November 2024 – Present
Indee *Bengaluru*

- Integrated **Recurly-based subscription billing** supporting multiple plans, proration, invoicing, and webhook-driven payment validation, driving an **8% increase in revenue**.
- Re-architected **video transcoding pipelines** using **AWS Elemental and Zencoder**, adding fault-tolerant retries and reducing end-to-end processing time by **10%**.
- Implemented scheduled cleanup jobs to **automatically delete original video assets** after a retention period, reducing **S3 storage usage by 30%** across **4.5M+ videos**.
- **Independently owned and evolved a core platform module**, delivering new features, maintaining APIs, and integrating **Strapi CMS** - driving faster content updates with no external dependencies.

Full Stack Engineering Intern July 2024 – October 2024
Indee *Bengaluru*

- Developed an **AWS Lambda-based event processor** to aggregate viewer engagement data, leveraging **Redis caching** to support analytics and enable seamless resume playback functionality.
- Migrated REST APIs from internal database IDs to **secure, auto-generated public keys**, eliminating enumeration vulnerabilities and directly contributing to **SOC 2 compliance**.
- Designed and integrated **Stripe payment workflows**, including webhook-based event handling to validate successful transactions and gracefully handle payment failures.
- Built internal automation scripts to **scrape and aggregate external data** for operations and sales teams, reducing manual effort and turnaround time.

PROJECTS

AI-Powered PR Reviewer Github | Website

- A self-hosted platform that runs multiple AI agents on GitHub pull requests to post automated, actionable code reviews.
- Built an event-driven Go backend with a RAG pipeline, a webhook-triggered river job queue, and multi-LLM provider registry.
- Instrumented the pipeline with **OpenTelemetry traces and Prometheus metrics**, fanned out through an **OTel Collector** to Jaeger and Grafana, surfacing per-review latency, token spend by model, and agent failure rates.
- **Technologies:** Go, Next.js, PostgreSQL, Docker, OpenTelemetry, Prometheus, Grafana

Pratyaksh Github | Website

- Winner, Smart India Hackathon 2023. Real-time infrastructure progress tracking that replaces manual site inspection with verifiable geotagged evidence, using GIS and digital image processing to compute completion from field photos.
- Designed the backend API and data model for geotagged submissions, image uploads,and progress computation.
- Built a React Native field app for photo capture, with a dashboard for site status and reporting.
- Technologies: React Native, ReactJS, NodeJS, Flask, FastAPI

LEADERSHIP & ACHIEVEMENTS

- **Winner, Smart India Hackathon 2023**, built a real-time infrastructure monitoring solution using GIS and image processing.
- Contributed to **PyCon India 2025** website development, supporting a 1500+ attendee open-source conference.
- **Lead, Genesis Student Forum** - organized two 24-hour hackathons (Hackman) with 200+ participants and mentored a third.