

Rakshit Jain

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PROFESSIONAL SUMMARY

Results-driven Software Engineer with 1.5+ years of experience architecting scalable backend systems and distributed infrastructure. Strong algorithmic foundation with a proven track record of optimizing production latency by **50%**. Expertise in building high-performance engines using **Node.js**, **TypeScript**, and **Cloud-Native technologies (AWS/Kubernetes)**.

EXPERIENCE

Quantiphi

Platform Engineer

Mumbai, India

Aug. 2024 – Present

- Architected a production-grade safety video analytics pipeline for global theme park operators, serving **10M+ annual visitors** with **99% uptime SLA** across 5+ attractions.
- Reduced video processing latency by **50% (800ms to 400ms)** by implementing efficient data structures (hash maps, priority queues) and tuning Kubernetes resources (CPU/Memory limits).
- Developed high-throughput Python microservices using **asyncio** and **Redis**, achieving zero downtime while processing 60+ frames/second per stream with automatic retry mechanisms.
- Orchestrated CI/CD pipelines using GitLab and Helm, reducing manual deployment time by **40%** and creating technical documentation that decreased team ramp-up time by **50%**.

Quantiphi

Framework Engineer Intern

Mumbai, India

Feb. 2024 – Aug. 2024

- Designed cloud-native applications across **AWS** and **GCP** using Docker and Kubernetes, creating reusable templates that reduced new service deployment time by **92%**.
- Optimized automated ELT pipelines with **Apache Airflow**, improving data processing efficiency by **25%** through parallelization and SQL query optimization.

PROJECTS

Scroll OS | Next.js 15, Node.js, PostgreSQL, Redis | github.com/rakshittt/ScrollOS

- Engineered a comprehensive **SaaS platform integrating Gmail/Outlook APIs via a Node.js event-driven architecture**; implemented exponential backoff logic to reduce inbox sync time by **45%** (10s to 5.5s).
- Developed a custom ML-inspired classification algorithm utilizing n-gram analysis and Bayesian probability, achieving **90% accuracy** in sorting 1,000+ newsletters per user with a 5% false positive rate.
- Optimized system throughput by **40%** using Redis Pub/Sub for live status updates, WebSockets for push notifications, and database write batching (bulk inserts of 100+ records) to minimize I/O overhead.
- Built a high-performance frontend with Next.js Server Components and PostgreSQL *tsvector* search, ensuring sub-200ms response times for full-text search queries even with large datasets.

TalentSync | Next.js 15, TypeScript, PostgreSQL, AWS | github.com/rakshittt/TalentSync

- Architected a resume-job fit analysis platform with a multi-model AI fallback system (GPT-4 primary, GPT-4o-mini fallback), ensuring continuous availability during provider rate limits or outages.
- Implemented type-safe AI responses using Zod schema validation with OpenAI Structured Outputs, eliminating JSON parsing failures and enforcing strict contract between LLM outputs and application state.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C++, SQL, Bash

Backend & Frameworks: Node.js, Express.js, FastAPI, Next.js, Microservices, REST APIs

Cloud & DevOps: AWS (EC2, Lambda, S3, RDS), GCP, Docker, Kubernetes, Helm, GitLab CI/CD

Databases & Caching: PostgreSQL, MongoDB, Redis, MySQL, DynamoDB

Problem Solving: Data Structures & Algorithms, System Design

EDUCATION & CERTIFICATIONS

Shri Govindram Seksaria Institute of Technology and Science (SGSITS)

Indore, India

B.Tech in Electronics and Telecommunication

May 2024

Certifications: Google Cloud Certified - Associate Cloud Engineer | AWS Certified Solutions Architect (Pursuing)