Roshan S. Kanojiya

AI Orchestration & System Designer — B.E. Computer (SSASIT, Surat)

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PROFILE SUMMARY

B.E. Computer student at SSASIT, Surat, specializing in system design and AI orchestration. I design deterministic, production-ready orchestration systems that integrate LLMs, automation platforms, and backend services. Delivered 20+ automation projects with typical reductions in manual effort of 50–70%. Focus areas: orchestration patterns, event-driven design, reliability, cost-aware LLM usage, and observability. Open to internships, contributions to startups, and collaborative engineering roles.

CORE SKILLS & SYSTEM DESIGN

- System design: event-driven patterns, idempotency, checkpoints, retries, DLQ
- Orchestration & Automation: workflow design, node orchestration, n8n exports
- LLM orchestration: RAG, prompt engineering, batching, caching, cost controls
- Data & search: vector DBs (FAISS/Weaviate), semantic chunking, embedding pipelines
- Cloud & serverless: Cloud Functions, App Engine, API Gateway, Pub/Sub
- Engineering practices: CI/CD, runbooks, monitoring, logging, secrets management

SELECTED PROJECTS (SYSTEM DESIGN FOCUS)

Meta Ad Campaign Automation — 54-node n8n workflow

Designed an event-driven orchestration pipeline for campaign lifecycle management: triggers → n8n orchestrator → KPI analyzer → auto-scaling/pausing actions. Implemented idempotency keys, retry/backoff, DLQ, and lightweight logging for auditability. Outcome: significant reduction in manual ad operations; deterministic rollback procedures.

Instagram Auto-Posting System — 35-node workflow

Scheduled ETL pipeline with image optimization, caption generation (LLM), hashtag suggestion, and publish monitoring. System design includes post deduplication, API call caching, and network-failure recovery strategies to minimize cost and ensure reliability.

Document-Based Chatbot (RAG)

Ingestion → embedding → vector store → retrieval → LLM responder architecture. Focused on batched embeddings, semantic chunking, TTL caching, and optional local-only processing to preserve privacy and reduce external API usage.

AI Slide Deck Generator

Modular pipeline converting prompts into slide outlines and exportable PPTX. Design emphasizes stage isolation, error containment, and human-in-the-loop editing for final polish.

AR/VR QR Model App

Pipeline to convert 3D assets into mobile-optimized GLB, host artifacts, and serve QR previews. Designed for fast mobile AR previews with CDN-backed hosting.

CERTIFICATIONS & IMPACT

• 18+ Google Cloud Skill Badges (GenAI, Vertex AI, Cloud Functions, App Engine)

• 20+ automation projects completed across marketing, e-commerce, and internal tooling

• Typical automation ROI: 50–70% reduction in manual effort

EDUCATION

B.E. in Computer Engineering — SSASIT (Surat) — In progress

Relevant coursework: Distributed Systems, Cloud Computing, Data Structures, AI/ML

SELECTED GITHUB REPOSITORIES

1. ROSHAN-portfolio — Personal portfolio and project showcase
2. Gamma-Studio-Watermark-Remover — Local-first PDF/PPTX watermark remover (privacy-focused)
3. GTU-DT-CANVAS — Interactive digital workspace for GTU Design Engineering
4. VISUAL-CHAPTER-PALNNER-novel-to-visuals — Narrative-to-visual previsualization tool
5. GTU-Physics-Model-Report-Generator-AI-Powered-Academic-Report-Builder — AI-driven academic report generator

AVAILABILITY & INTERESTS

Open to internships, part-time engineering roles, and contributions to startups. Interested in collaborative projects where I can help design reliable orchestration systems, accelerate productization of AI features, and improve operational efficiency.

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