

Chirag Singhal

Software Engineer — Backend, Full-Stack & Applied AI · Python · TypeScript · Go

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SUMMARY

Software engineer with 3+ years across backend, full-stack, and applied AI. Currently on SAP's Lead-to-Cash (CPQ) platform at TCS, building AI tooling (hybrid-RAG search, React dashboards, CI/CD automation) on top of an enterprise quoting system. Outside work I ship oriz.in — a self-run family of free, privacy-first web tools and open-source MCP servers. JEE Advanced AIR 11870 (top 1%) and college topper. Rate: \$25–50/hr.

EXPERIENCE

Software Engineer — Tata Consultancy Services

Bhubaneswar · Jun 2025 – Present

- Support SAP CPQ Lead-to-Cash across 20+ functional areas (BOM & Pricing, Opportunity Mgmt, Deal Reviews, Provisioning, Contracting, Order Mgmt).
- Built hybrid-RAG search over a 100+ video / 40+ deck CPQ knowledge base — dense embeddings + BM25 + reranking on Hyperspace AI — cutting ticket-resolution and onboarding time.
- Automate pricing/configuration validation and CI/CD workflows in Python; build React dashboards for real-time backend visibility.

Software Developer — Full Stack — QRsay.com

Remote · Jul 2023 – May 2025

- Built high-traffic food-commerce platform end-to-end: Python, Node.js, MongoDB.
- Event-driven order pipeline on Apache Kafka; Razorpay gateway with HMAC-verified webhooks.
- Cut API response times via query optimisation, indexing, Redis caching; modular React frontend.

OPEN-SOURCE PROJECTS & PRODUCTS

agent-forge · Python · multi-agent · evals

chirag127/agent-forge

- Multi-agent LLM orchestrator — planner/executor/critic, pluggable JSON-schema tool-calling, provider failover, LLM-as-judge eval harness; OpenTelemetry-instrumented, 67 tests.

rag-lens · Python · RAG · vector search

chirag127/rag-lens

- Production hybrid-RAG: dense + BM25 → RRF fusion → cross-encoder reranking (LanceDB), FastAPI + Docker; eval suite reports Recall@k / MRR / nDCG.

Clear-Thought MCP Server · 36★ · TypeScript

chirag127/Clear-Thought-MCP-server

- 11 structured-thinking tools (sequential thinking, mental models, debugging, decision frameworks) for MCP-compatible AI clients.

deploy-kit / go-vault · Kubernetes · Terraform · Go

deploy-kitgo-vault

- GitOps reference (Kustomize + Helm, HPA, NetworkPolicy, Argo CD, Prometheus/Grafana). Go gRPC microservice (pgx, Redis, rate limiting, graceful shutdown).

OmniDistribute · TypeScript

chirag127/OmniDistribute

- Idempotent content-distribution engine publishing one Markdown source to 30+ platforms; circuit-breaker + retry adapter pattern.

oriz.in · flagship · Astro · React · Cloudflare

oriz.in

- Family of free, privacy-first web tools; all compute in-browser or on Cloudflare Workers. Publishes reusable @chirag127/* npm packages.

SKILLS

Languages: Python (advanced), TypeScript, JavaScript, Go, SQL, Bash

Backend: Node.js, FastAPI, Flask, Express.js, REST + gRPC, Protocol Buffers, microservices, Apache Kafka, OAuth2

Frontend: React, Astro, Tailwind CSS, PWAs, browser extensions (Chrome/Firefox)

AI / LLM: MCP server development, multi-agent orchestration, RAG pipelines (dense + BM25 + RRF + reranking), vector search (LanceDB), LLM evals (Recall@k / MRR / nDCG), prompt engineering, multi-provider LLM integration

Databases: PostgreSQL (Neon/pgx), Redis, MongoDB, Turso (SQLite edge)
Cloud & DevOps: Docker, Kubernetes, Terraform, Argo CD, Prometheus/Grafana, OpenTelemetry, Cloudflare Workers & Pages, GitHub Actions, Linux
Practices: System design (HLD/LLD), TDD, distributed systems, Agile, Git

QUALIFICATION

B.Tech, Computer Science & Engineering — AKTU

- College Topper (Rank 1). Senior Secondary (CBSE) — 97%.

Honors & certifications:

- JEE Advanced 2020** — All India Rank 11870 (top 1%, 1M+ aspirants).
- Claude Certified Associate — Foundations**, Anthropic (2026).
- 20+ Udemy Business courses (AI/LLM, ML, Python, Agile) via TCS.

Uttar Pradesh · 2020 – 2024