Manish Kumar Singh

+91-9198171021 | manish31311@gmail.com | manishh.me | India (open to remote)
linkedin.com/in/manish-kumar-singh-082627214 | github.com/Mks1311 | LeetCode: 400+ solved | **Immediate joiner**

Summary

Backend engineer (**Python**: **FastAPI**, **Django**) shipping for US and Canadian teams since 2025: **PostgreSQL**, **Elasticsearch**, **Celery/Redis**, **Stripe** and **Next.js/SvelteKit**, plus production **LLM** features. Available 9:30 AM–7:30 PM UTC (UK/EU and US East overlap).

Experience

Software Developer Sep 2026 – Present
BrightPathDigital (Canada): Full-stack and AI product development for multiple clients *Remote · Full-time contract*

- Traced a silent production bug where an overloaded single-worker **Celery** renderer shipped cards missing customers' handwriting; fixed with **HTTP 425 + Retry-After** holds, backoff retries (3 → 8) and corrected timeouts.
- Developed **FastAPI** services for an AI card editor: mask- and point-targeted **AI image edits**, handwriting transcription, **vision-model** photo placement, and version history with restore.
- Implemented an **LLM** news-publishing pipeline (**Next.js**, **Supabase**, **Gemini**), running on a pilot site and built to scale to 30 sites: verified source quotes, per-call AI cost budgets and lock-guarded, retryable jobs.
- Owned development of 2 bilingual (**English/Arabic, RTL**) e-learning platforms (**Next.js**, **Express**, **Supabase**); caught unverified **Stripe** webhook signatures in production, fixed them, and made payment recording **idempotent**.

Freelance Full-Stack Developer Apr 2026 – Present
Independent client work *Remote*

- Shipped two client sites solo from code to Google-indexed domain, including riyazahmedts.com (React, TypeScript).

Software Developer Apr 2025 – Apr 2026
Gun Made (Brady's Blogs LLC): High-traffic US e-commerce marketplace *Remote · Full-time contract*

- Engineered **sub-second Elasticsearch** search over a **catalog of millions**: boosted multi-match, fuzzy matching, faceted aggregations, **two dozen URL-synced filters**, geo sorting and autocomplete.
- Designed the **Cloudflare Workers** edge API behind every frontend: one Worker over **two Hyperdrive bindings** serving a **legacy PostgreSQL** and a **newer Aurora cluster** at once during migration.
- Delivered a **Django/DRF** CMS and a **Celery** price/stock sync with batched **SQL**; owned **4 repositories**.
- Architected a **SvelteKit** rebuild (SSR, 30+ components) lifting **PageSpeed 60 → 90**; led a **Svelte 5** rewrite adding 5 verticals and a **DynamoDB**-backed store locator.

Full-Stack Intern (Frontend Intern, Jul–Sep 2024) Jul 2024 – Apr 2025
Whatbytes (Certificate) *Bengaluru, India*

- Built **Django/Stripe** backends (+**25%** transaction success) and Next.js, Svelte, Angular UIs; led an intern pod.

Projects & Open Source

Daftaar: Government-Job Eligibility Alert Bot | *Python, Django, LLMs, Telegram* Live on Telegram

- Deployed a **Django** + **Telegram** bot alerting **about 30 students** to jobs they qualify for; **$0/month**, **103 tests**.
- Created a hybrid rules + **LLM** pipeline that turns messy recruitment notices into structured eligibility data; only low-confidence cases reach the LLM, swappable across **3 providers** with rules-only fallback.

Repo LLM: Codebase RAG Agent | *Python, MCP, ChromaDB, BM25* github.com/Mks1311/repo-llm

- Shipped **RAG** over GitHub repos: **AST** chunking, **hybrid retrieval** with reranking and an **MCP** server.
- Benchmarked via a 10-query eval: **top-5 hit rate 90% → 100%**, **MRR +9–14%** over either retriever alone.

Poolify: LLM API Gateway | *Go, Gin, PostgreSQL, Redis* github.com/Mks1311/proxy

- **Go + Gin** gateway with provider fallback, **SSE streaming**, a worker pool, fair queueing and **Redis** rate limiting.

mloda: Open-source data-access framework for AI/ML | *Python, 2 merged PRs* github.com/mloda-ai/mloda

- Fixed readers silently binding to the wrong file on a failed hint (#1176) and 4 Windows-only test failures (#1152).

Technical Skills

Languages: Python, TypeScript, JavaScript, Go, SQL **Frontend:** Next.js, React, SvelteKit, Svelte 5, Tailwind
Backend: FastAPI, Django, DRF, SQLModel, Alembic, Celery, Node.js/Express, Gin, REST APIs
Data & Infra: PostgreSQL, Elasticsearch, Redis, Supabase, Docker, AWS (S3, DynamoDB), Cloudflare Workers, Git
AI/LLM: RAG, MCP, tool calling, ChromaDB, BM25, hybrid retrieval, reranking, LLM APIs (Claude, Gemini, Groq)
AI Dev Tools: Claude Code, OpenAI Codex
Fundamentals: Data Structures & Algorithms, System Design, DBMS, OOP

Education

Dr. A.P.J. Abdul Kalam Technical University (B.Tech, Electronics) Prayagraj, UP · Sep 2021 – Jun 2025