Karan Singh

+91 6378441362 kschouhan735@gmail.com Jaipur, Rajasthan, 302021 Portfolio GitHub LinkedIn LeetCode

PROFESSIONAL SUMMARY

AI Full Stack Developer with 2+ years of experience, including an internship at a product-based startup. Skilled in Node.js, NestJS, TypeScript, PostgreSQL, MongoDB, Prisma, and Next.js. Built microservices migrations, real-time apps with Socket.IO/Redis, and payment systems, and now building AI products with LLMs, RAG, and agents. | **Availability: Immediate Joiner.**

SKILLS

Languages	JavaScript, TypeScript, SQL
Full Stack	Node.js, NestJS, Express.js, Prisma ORM, REST APIs, WebSockets (Socket.IO), BullMQ, React.js, Next.js, Jest
Databases & Infra	PostgreSQL, MongoDB, Redis, AWS EC2/S3, Cloudflare R2, Docker, CI/CD
System Design	Microservices, Event-Driven Architecture, Caching, Rate Limiting, Load Balancing, Web Crawling & Scraping
AI / GenAI	LLM Integration (Claude, Gemini, OpenAI, OpenRouter), LangChain, RAG, Vector DB (Pinecone), AI Agents
Dev & AI Tools	Git, GitHub Actions, Postman, Swagger, Vercel, Render, Jira, Claude Code, Cursor, GitHub Copilot

EXPERIENCE

Orebit Private Limited (Contract) **Aug 2026 - Oct 2026**
Software Developer *Jaipur, Rajasthan*

- Delivered a real-time chat feature (**Node.js**, **Socket.IO**) supporting **7+ room types** (Global, Premium, VIP, KYC, merchant, staff, region/country), DMs & groups, and a **35-permission** moderation system.
- Implemented Rainpool, an automated currency-distribution system with randomized payouts and multi-tier security verification.

Dev Technosys (CMMI Level 3) **Oct 2024 - Apr 2026**
Software Developer | Project Links: NowGas, Billzar *Jaipur, Rajasthan*

- Owned the full order lifecycle — cart, order, payment, delivery — for **NowGas**, a B2B/B2C LPG distribution platform serving Cambodia, spanning dealer, driver, and admin workflows, with **ABA PayWay** integrated.
- Migrated **NowGas**'s monolithic backend to microservices, resolving Socket.IO horizontal scaling bottlenecks and enabling real-time driver location updates every 10–15 seconds under higher load.
- Built **Squad Duel**'s fantasy football backend with **SportMonks API** integration and **cron jobs** for live score polling every **60s**, leaderboards and winner declaration, using **MongoDB** indexing to cut prize payout time from hours to seconds.
- **Independently optimized** MSC's PostgreSQL schemas and indexing strategy from scratch, reducing query latency by **36%** for high-traffic read operations, and set up its live video streaming pipeline on **Wowza** to support real-time playback for **10,000+ concurrent users**.
- Built **Billzar**'s payment infrastructure on **Razorpay** — covering mobile recharge, utility bill payments, and UPI/credit-to-bank transfers with order creation, verification, webhooks, and reconciliation.

AXTechnosoft Private Limited **Dec 2023 - Jun 2024**
Frontend Developer Intern (Full-time) | Project Link: CRPTM *Gurgaon, Haryana*

- Redesigned key product pages and enhanced core workflows of the CRPTM crypto tax management platform, contributing to a **20%** increase in user engagement through improved UI/UX.
- Developed new features and built reusable UI components using **Next.js** and **TypeScript**, accelerating feature delivery by **30%** in an agile product development environment.

PROJECTS

ThreadFlank: AI Virtual Try-On & Social Fashion Platform **Live Link | GitHub | Demo** ***Jul 2026 - Present***

- Built **Drape Studio**'s try-on pipeline — selfie to reusable digital twin to garment render across **8 slots** — on **2 image engines** with ordered fallback, scored by a **3-axis quality rubric** per engine.
- Grounded the **AI stylist** in **25** curated occasion & dress-code rules (**RAG** — LangChain, Pinecone) and the user's own wardrobe via read-only tools, so outfits follow real etiquette.
- Built a scalable real-time layer (**26 Socket.IO** events, **Redis** Pub/Sub, **BullMQ**) with **190 unit tests**, and a read-only **text-to-SQL** agent (**19-case guard**) scoring **29/30 (96.7%)** at **p95 3.5 s**.
- **Tech Stack**: Next.js, NestJS, TypeScript, PostgreSQL, Prisma, Redis, BullMQ, Socket.IO, Gemini, LangChain, Pinecone.

PrepKit.ai: AI Interview Prep Kit Generator **Live Link | GitHub | Demo** ***Sep 2026 - Oct 2026***

- Generated requirement-linked question banks from **6** sources per company, by building an 8-stage **agentic research pipeline** that crawls company sites, ranks hiring pages on a 50-keyword scorer, and mines public interview discussions.
- Added **45 automated tests** for must-have coverage, using deterministic coverage checks and **N-day** scheduling in code, plus **multi-provider routing** (Gemini, Groq, OpenRouter) with 4-retry backoff.
- **Tech Stack**: Node.js, Express, TypeScript, MongoDB, Next.js, Tailwind CSS, Gemini, OpenRouter.

EDUCATION, ACHIEVEMENTS

B.Tech in Computer Science | *Arya College of Engineering and I.T. (Rajasthan Technical University)* | *7.71 CGPA* Jun 2019 - Jun 2023
Introduction to Generative AI Learning Path *(Google Cloud x Coursera, certificate)* May 2026 - Jun 2026
Achievements *Employee of the Month at Dev Technosys | 225+ LeetCode Problems Solved*