

# Harshit Gupta

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I am a high-agency full-stack developer who takes end-to-end responsibility for products and focuses on shipping reliable features that actually solve user problems. I've proved this in my past work, where learning quickly and reflecting on feedback helped me ramp up fast and deliver beyond the initial scope.

## WORK EXPERIENCE

<b>Full-stack Developer</b>	<b>Jul 2025 - Present</b>
<b>TripAbhi</b>	<b>Ludhiana, Punjab, India (Remote)</b>
<ul style="list-style-type: none"><li>• Sole full-stack owner for TripAbhi (Next.js, Firebase, Tailwind), collaborating with the founders to turn travel-domain workflows into a shippable SaaS roadmap delivered in 3–4 weeks, owning end-to-end implementation and technical decisions.</li><li>• Restructured trip architecture into a Master Trip + Batch Trip graph with batch-level pricing, capacity, and booking, eliminating duplicated trip entries and making it easy for organizers to run multiple cohorts from a single source of truth.</li><li>• Implemented a lead pipeline and mocked advance and balance payment flow (interest capture, approvals, dashboard controls), improving trip discovery, reducing manual follow-ups, and preparing the stack for Razorpay + WhatsApp notifications.</li></ul>	
<b>Full-stack Intern</b>	<b>Dec 2024 - Apr 2025</b>
<b>Redbird Corporation</b>	<b>Richardson, TX, USA (Remote)</b>
<ul style="list-style-type: none"><li>• Contributed as the sole full-stack maintainer for key periods, owning roadmap execution, releases, and on-call fixes across POS, web, and mobile surfaces.</li><li>• Designed and shipped a POS Appointment module integrated with Google Calendar, reducing manual booking overhead and directly enabling onboarding of 5 new business clients.</li><li>• Iterated rapidly on POS flows from merchant feedback and extended the React and Django REST stack with Tinybird dashboards and hardened REST APIs, giving stakeholders self-serve visibility into sales and branch performance without engineering support.</li></ul>	

## PROJECTS

<b>The Index</b> ↗	<ul style="list-style-type: none"><li>• Monorepo AI RAG platform (Turborepo, TypeScript, Next.js, Postgres/pgvector) that gives users a single “knowledge inbox” for YouTube, PDFs, web pages, and tweets, replacing manual tab-hopping with one chat interface.</li><li>• Built ingestion + retrieval pipelines that generate high-signal context windows via pgvector cosine similarity, making LLM answers grounded in user data instead of hallucinations.</li><li>• Implemented a containerized autoscaling worker architecture (Docker, Kubernetes, Redis Streams + KEDA) to process ingestion and retrieval workloads, where background pods scale from 1–3 based on stream lag, keeping the RAG API responsive under load; exposed the core platform via REST APIs for downstream clients.</li></ul>
<b>Opex</b> ↗	<ul style="list-style-type: none"><li>• Engineered a low-latency perpetual crypto trading engine as a multi-service Node.js/TypeScript system using a microservices architecture and event-driven system design, with a dedicated price poller, WebSocket Gateway, and background workers for instant feedback and automated liquidation.</li><li>• Designed event-driven workflows using pub/sub, Redis Streams, and MongoDB so trades can be replayed, price updates fanned out in real-time, and user positions survive restarts with full history for basic backtesting.</li><li>• Optimized the matching and execution path to keep median trade execution latency under 10 ms locally and under 50 ms after deployment, even during rapid price movements.</li></ul>

## SKILLS

<b>Programming Languages:</b> TypeScript, JavaScript, Python
<b>Backend:</b> Node.js, Express, Redis, GoogleAI SDK, tRPC, Django, OpenAI SDK, Firebase
<b>Frontend:</b> Next.js, React, Redux Toolkit, Zustand, React Query, Tailwind, shadcn/ui
<b>Databases:</b> MongoDB, PostgreSQL, Prisma, Drizzle, Mongoose
<b>DevOps:</b> Docker, K8s, AWS (EC2, S3, Lambda), DigitalOcean, CI/CD, cloud deployment

## EDUCATION

<b>B.Tech Computer Science and Engineering, AIML Specialization</b>	<b>Nov 2021 - Jun 2025</b>
Lakshmi Narain College of Technology, Bhopal, India	<b>GPA: 8.32</b>
<ul style="list-style-type: none"><li>• Founded and led the college IoT club, running hands-on workshops and teaching hardware-free IoT prototyping.</li><li>• Built a C++ gamified rehabilitation app for neck/back posture tracking with OpenCV and a SARIMA-based time-series forecasting app to model seasonality and predict sales trends.</li></ul>	

## AWARDS

<b>Graduate Aptitude Test in Engineering (GATE) by Department of Higher Education, India</b>	<b>Mar 2024</b>
All India Rank of 2,852 out of 39,210 in the Data Science and Artificial Intelligence (DA) branch	