

Yash Bisht

Full-Stack AI Engineer

 [Phone](#) |  [Email](#) |  [LinkedIn](#) |  [GitHub](#)

Skills

- **Languages:** JavaScript (ES6+), TypeScript, Python, Java.
- **AI & LLM Engineering:** RAG Systems (pgvector, semantic search), Agentic Tool-Calling, LLM Integration (OpenAI, Groq, Gemini), Prompt Engineering, Vercel AI SDK, OpenAI Agent SDK.
- **Frontend:** React.js, Next.js (App Router), Redux Toolkit, Tailwind CSS, Shadcn/UI, Framer Motion, HTML5, CSS3
- **Backend & Database:** Node.js, Express.js, RESTful APIs, Fast API, PostgreSQL (Neon), Drizzle ORM, MongoDB, Mongoose, Supabase, Firebase
- **Auth & Dev Tools:** Clerk, JWT, Git, GitHub, Postman, Vite.
- **Coursework:** OOPs, DBMS, Data Structures.

Work Experience

Frontend Web Developer, Ai-Learn, Bengaluru, IN

(Mar 2025 – Jun 2025)

- Translated Figma designs into 15+ reusable Next.js + Shadcn/UI components, reducing design-to-development turnaround by 25% and standardizing UI patterns across the platform.
- Integrated REST APIs via Axios with custom hooks and engineered multi-role access control (admin / teacher / student) with protected routing, eliminating unauthorized access across all user flows.
- Improved cross-device responsiveness and accessibility, raising Lighthouse performance scores by 20% across all major breakpoints.

Projects

- **IntelliVault — Enterprise RAG Document Intelligence Platform** | *Next.js 16, TypeScript, Drizzle ORM, Neon DB (pgvector), Clerk, Groq LLaMA, Gemini Embeddings, Vercel AI SDK v6* — [[GitHub](#)]
 - Architected a multi-tenant RAG platform with workspace-scoped document isolation and RBAC (Owner/Editor/Viewer) enforced at the API layer, ensuring zero cross-tenant data access.
 - Built a production document ingestion pipeline — unpdf extraction, LangChain recursive chunking, Gemini embeddings, and pgvector HNSW storage — with real-time processing status tracking.
 - Engineered a tool-calling RAG chat system with Vercel AI SDK v6 and Groq LLaMA, delivering cited source attribution, token-level streaming, and persistent, resumable session history.
 - Implemented workspace member management with email invites via Resend, full audit logging, and role-based settings controls — architecting for enterprise-grade auditability.
- **NestIQ — AI-Powered Hotel Booking Platform with Agentic Concierge** | *React.js, Redux Toolkit, Node.js, Express.js, MongoDB, Groq API (LLaMA 3.3-70B), Tool-Calling, Prompt Engineering, Framer Motion* — [[Backend](#)], [[Frontend](#)], [Live](#)
 - Designed and debugged a multi-turn agentic tool-calling loop using Groq's LLaMA 3.3-70B, implementing finish_reason state tracking and branching logic to handle tool success, failure, and truncation scenarios in a real-time hotel concierge system.
 - Engineered a structured system prompt architecture with explicit success/failure branching paths, preventing double marker injection and ensuring the model correctly processes failed tool results — solving a core LLM reliability problem in production agentic flows.
 - Architected a hotel seed dataset and RESTful booking backend with Express.js + MongoDB, designing schema relationships and API contracts to support AI-driven query resolution across dynamic inventory and availability states.
- **Solemate — Full-Stack Shoes E-Commerce Platform** | *React.js, Redux Toolkit, Node.js, Express.js, MongoDB, Mongoose, Tailwind CSS, JWT, bcrypt* — [[Frontend](#)], [[Backend](#)], [Live](#)
 - Engineered a complete e-commerce system covering product listings, cart management, order workflows, and an admin dashboard — backed by a scalable REST API with carefully modeled Mongoose schemas and relational data patterns.
 - Secured all transactional and admin endpoints with role-based access control (user/admin), JWT authentication, and bcrypt password hashing, enforcing strict permission boundaries across the entire platform surface.
 - Optimized client-side state management with Redux Toolkit, eliminating redundant API calls and maintaining consistent cart and authentication state across the full purchase funnel.

Education

Bachelor of Technology in Computer Science & Technology

Aug 2024 – Jun 2028

Dr. Akhilesh Das Gupta Institute of Professional Studies (GGSIPU) — CGPA: 8.40