Hritik Raj

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Professional Summary

Full-Stack AI Engineer with production experience building B2B software across Next.js, React, TypeScript, Python, FastAPI and PostgreSQL. Specialises in multi-agent LLM systems, structured outputs, RAG, real-time applications, multi-tenant architecture, secure APIs and cloud delivery from architecture through deployment.

Experience

GoDiverse Jun 2025 – Present
Full-Stack Developer & AI Engineer *London, UK (Remote)*

- Shipped SupplierVerse.ai, a B2B AI procurement product with Next.js, FastAPI, PostgreSQL/pgvector, 85 FastAPI endpoints, 297 migrations and role-scoped buyer, supplier and administrative workspaces.
- Engineered an Azure OpenAI/LangGraph Bid Writer with supervisor-led agents, schema-validated outputs, deterministic guardrails, claim-risk checks, human approval and Server-Sent Events for controlled bid-response generation.
- Implemented a bronze-to-silver-to-gold tender-ingestion pipeline across 7 procurement portals, combining CPV filtering, embedding search in pgvector and LLM-generated match explanations.
- Led secure multi-tenant onboarding and identity migration using Companies House integration, SSRF protection, JWT claims and PostgreSQL Row-Level Security, preserving backward-compatible reads during rollout.
- Delivered threaded workspace collaboration with comments, mentions, reactions, attachments and tasks, enforcing content integrity and role-scoped permissions through PostgreSQL constraints and triggers.

Gitchi IT Solution Oct 2024 – Jan 2025
Full-Stack Developer & DevOps Engineer *Gurugram, Haryana*

- Delivered a Next.js Web3 product and browser wallet extension implementing BIP32/BIP44 HD-wallet flows and secure transaction signing in coordination with the blockchain team.
- Automated Jenkins CI/CD and containerized services with Docker and Nginx across AWS, Azure and Linode environments, standardizing build, deployment and reverse-proxy configuration.

Selected Projects

DocForge Agentic Doc & MCP | *Next.js 16, TypeScript, Supabase, PostgreSQL, Yjs, MCP* | docforge.foxea.xyz 2026

- Built an AI-native document workspace with 7+ AI agents for writing, editing, formatting, reviewing, translation and tutoring, plus custom agents, multi-model comparison and composable Write–Review–Polish pipelines.
- Integrated Claude, ChatGPT, Codex and other MCP clients for document-aware AI editing, with live activity tracking, diffs, undo, per-block revert and real-time human–AI collaboration.
- Engineered real-time editing with Yjs, secure user-scoped MCP access and encrypted provider keys, alongside usage/cost tracking, document sharing, comments, rich content blocks and PDF/DOCX export.

UplyFox | *Next.js, TypeScript, Chrome MV3, Gemini, Mistral* | uply.foxea.xyz 2026

- Built a Chrome application assistant with grounded profiles, deterministic answer resolution, optional AI writing, job matching and application tracking.
- Engineered reliable form automation across frames, Shadow DOM and ARIA controls with attachment handling, write verification and hash-bound approval for safe submissions.

AffsAI | *Next.js 14, TypeScript, Mistral, Tavily, Upstash, Vercel Cron* | affsai.com 2026

- Built an English and Hindi current-affairs platform with 51 canonical sources, resilient RSS/Atom ingestion, sanitization, deduplication and fault-tolerant batch processing.
- Implemented scheduled daily briefs, quizzes and Tavily-grounded research using Mistral with retries and fallback handling, alongside SEO/structured-data delivery and an offline-first mobile client.

Technical Skills

Languages: Python, TypeScript, JavaScript, C++, Bash
Backend & APIs: FastAPI, Node.js, REST APIs, API design, API integration, Server-Sent Events (SSE), WebSockets, MCP
AI & LLM: LangGraph, LangChain, Vercel AI SDK, Azure OpenAI, Mistral, Groq, Gemini, Instructor, Pydantic, RAG, embeddings, pgvector, prompt engineering, tool calling, structured outputs, human-in-the-loop, agentic workflows
Frontend: React, Next.js, Tailwind CSS, Redux Toolkit, Zustand, BlockNote, Monaco, WebRTC
Data & Security: PostgreSQL, Redis, MongoDB, MySQL, database migrations, Row-Level Security (RLS), JWT, RBAC, OAuth 2.0, OAuth 2.1, authentication, authorization, multi-tenant architecture, data ingestion, SECURITY DEFINER RPCs, AES-256-GCM
Cloud, Testing & DevOps: Docker, Nginx, Azure VM, AWS EC2/S3/CloudFront, GitHub Actions, Jenkins, Vercel, Git, CI/CD, rate limiting, SSRF protection, Playwright, end-to-end testing

Education & Certifications

Lovely Professional University 2021 – 2025
B.Tech in Computer Science & Engineering *Jalandhar, Punjab*

Certifications: Microsoft Azure Security Engineer Associate (2025) | IBM Containers with Docker, Kubernetes & OpenShift (2024) | AMCAT Certified Software Engineer