

Hritik Raj

Bengaluru, Karnataka, India | 6206180458 | hritik.hritiksingh@gmail.com | linkedin.com/in/hritik-raj-bngr1a | github.com/rhrits

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

Full-Stack Developer AI Engineer

Jun 2025 – Present

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

Full-Stack Developer & DevOps Engineer

Oct 2024 – Jan 2025

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

AI Open Studio | Next.js 16, React 19, TypeScript, PostgreSQL, Mistral, BlockNote, Yjs, WebRTC | aios.coderstash.dev 2026

- Engineered a Mistral-powered prompt engine that converts free-text learning intent into 30 categorized prompts across 10 categories plus an importable roadmap through a single schema-validated call.
- Shipped a BlockNote document agent with structured block operations, balanced-brace JSON extraction, undo history and confirmation-gated rewrites. Added collaborative research with Yjs sync, WebRTC video, screen sharing and live transcription.

AffsAI | Next.js 14, TypeScript, OpenAI-compatible LLMs, Tavily, Upstash, Vercel Cron | affsai.com

2026

- Developed a public English and Hindi current-affairs platform ingesting 119 news, government and exam sources through a hand-written RSS/Atom parser, HTML sanitization, Unicode-safe deduplication and batched fault-tolerant fetching.
- Implemented cron-orchestrated daily briefs, validated quizzes and an 8-theme Tavily-grounded weekly digest using provider-agnostic LLM calls, three-tier storage and JSON-LD/SEO metadata. Currently designing an 11-agent event-intelligence engine for the next version.

Coders Cookies | Next.js 16, React 19, PostgreSQL, Monaco, Judge0/Piston, Docker | coderscookies.com

2026

- Engineered an open-source coding and placement platform with a Monaco IDE, pluggable Judge0/self-hosted Piston execution for C++, Python and Java, and learning content spanning 504 DSA problems, 150 editorials and 630 checkable topics.
- Hardened PostgreSQL access with Row-Level Security across 17 tables, public-profile projection RPCs, peppered-hash email OTP controls and server-side disposable-email validation.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C++, Bash

Backend & APIs: FastAPI, Node.js, REST APIs, API design, API integration, Server-Sent Events (SSE), WebSockets

AI & LLM: LangGraph, LangChain, Azure OpenAI, Mistral, Groq, Gemini, Instructor, Pydantic, RAG, embeddings, pgvector, prompt engineering, tool calling, structured outputs, human-in-the-loop

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, authentication, authorization, multi-tenant architecture, data ingestion, SECURITY DEFINER RPCs

Cloud, Testing & DevOps: Docker, Nginx, Azure VM, AWS EC2/S3/CloudFront, GitHub Actions, Jenkins, Vercel, Git, CI/CD, rate limiting, Playwright, end-to-end testing

EDUCATION & CERTIFICATIONS

Lovely Professional University

B.Tech in Computer Science & Engineering, CGPA: 7.3

2021 – 2025

Jalandhar, Punjab

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