

Shubhojeet Bera

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SKILLS

- **Languages:** TypeScript, JavaScript, Python
- **Frontend:** React, Next.js, TanStack Query, Zustand
- **Backend:** Node.js, Express.js, PostgreSQL, Vector DBs, MongoDB, Redis, ORMs, Docker, AWS
- **AI/LLM:** RAG pipelines, LangGraph, LangChain, Agentic tool orchestration

EXPERIENCE

Software Engineer | [Foyer Tech \(Merlin AI\)](#)

Feb 2025 - Feb 2026

- Led [Bonkers](#)' end-to-end v2-to-v3 migration, unifying recreation, regeneration, and editing workflows into a single image-to-image pipeline; delivered daily stability improvements and weekly UX features, contributing to a 50% increase in DAU post-migration.
- Developed [Templates](#) feature, enabling one-click generation of high-quality images across multiple styles and use cases, simplifying the creation process and resulting in 10K+ images generated in the first month.
- Spearheaded a full-scale refactor of [Merlin-Chat](#), improving codebase readability, modularity, and maintainability through component abstraction and memoization, resolved critical memory leaks and boosted the Lighthouse score from 30 to 90+.

Software Engineer | [Iterate AI](#)

Aug 2024 - Jan 2025

- Built automated code-generation tool for event tracking, analyzing developer workflows to create solutions that reduced manual implementation time by 70%.
- Contributed to deployment infrastructure overhaul designing scalable platform architecture that achieved 3x faster deployment cycles with reduced production incidents.
- Created internal monitoring dashboard for service health management, implementing real-time alerting system that cut incident resolution time by 50%.

PROJECTS

Edward | [Next.js](#), [TypeScript](#), [Express.js](#), [PostgreSQL](#), [Redis](#), [BullMQ](#), [Docker](#), [LLMs](#)

[GitHub](#) | [Demo](#)

- Architected Edward end-to-end, a prompt-to-production frontend app platform, building the job queue, isolated build sandboxes, and preview routing layer that keeps concurrent AI-driven code generation reliable and safe in production.
- Built a custom AI orchestration layer from scratch, including a streaming state-machine parser that converts raw LLM chunks into structured events in real time, a multi-turn agent loop with dynamic continue/stop resolution, and a Redis-buffered sandbox write pipeline.
- Designed the preview and recovery architecture that persisted project state, restored workspaces after failures, cleaned outdated artifacts, and managed preview delivery and routing - turning generated apps into stable, production-like environments.

Agentic chat | [Next.js](#), [TypeScript](#), [PostgreSQL \(+pgvector\)](#), [LangGraph](#), [RAG](#), [OpenAI](#)

[GitHub](#) | [Live](#)

- Architected a multi-modal LangGraph agent platform with deterministic context routing across vision, documents, memory, and tools, orchestrating planner-agent-tool loops with HITL approvals, crash-safe Postgres checkpointing, and per-step selection across 10 Composio integrations.
- Built a hardened RAG infrastructure layer combining hybrid retrieval, Cohere reranking, BYOK encryption, SSRF and prompt-injection defenses, adaptive semantic caching, and a PostgreSQL job queue to reliably process 10+ document formats at scale.

EDUCATION

Shri Shankaracharya Technical Campus, Bhilai
B.Tech in Information Technology (7.6 CGPA)

July 2020 - July 2024