IMRAN HOSSEN

Full-Stack Engineer

imranbappy.official@gmail.com
+8801724825061
linkedin.com/in/imranbappy
github.com/imranBappy
https://imranhossen-eng.vercel.app

SUMMARY

Full-Stack Engineer with 3 years of experience shipping production LLM applications end-to-end — from Next.js frontends to Node.js APIs to agent orchestration. Hands-on experience building AI agents with tool calling, RAG pipelines over vector databases, and conversation memory systems for real users. Comfortable owning a complete AI product solo: frontend, backend, LLM layer, and deployment. Open to remote roles at AI-first startups.

TECHNICAL SKILLS

- **Backend:** Node.js, Express.js, NestJS, REST APIs, GraphQL, SSE (Server-Sent Events)
- **Frontend:** Next.js (App Router), React, TypeScript, Tailwind CSS, Zustand, Redux Toolkit, TanStack Query, Apollo Client
- **Mobile:** React Native, Expo, React Navigation
- **AI / LLM:** OpenAI API, Claude API, LangChain, LangGraph, RAG, AI Agents, Tool Calling, Vector Databases, Prompt Engineering
- **Databases:** PostgreSQL, MongoDB, ChromaDB, Supabase, Firebase, Redis
- **DevOps & Tools:** Docker, AWS, Git, GitHub Actions (CI/CD), Postman, Vercel

PROFESSIONAL EXPERIENCE

Software Engineer — Edutechs *Dhaka, Bangladesh* | *Apr 2025 – Present*

- Designed and shipped LLM-powered AI agents to automate user interactions and internal workflows, reducing manual support load.
- Built RAG pipelines using vector databases for context-aware, retrieval-augmented responses grounded in private data.
- Implemented agent capabilities including tool calling, structured reasoning, and multi-step task execution.
- Developed short-term and long-term conversation memory systems that preserve user context across sessions.
- Integrated human-in-the-loop workflows for output validation, overrides, and quality control of AI responses.
- Optimized response pipelines for real-time streaming and low-latency interactions.
- Designed queue-based notification system for high-volume async events.
- Integrated Stripe, bKash, and SSLCommerz for secure payments.
- Implemented RBAC with granular role-based permissions.

Software Engineer — W3kernel *Remote* | *Aug 2023 – Apr 2025*

- Led frontend development on production web apps using React, Next.js, TypeScript, and Tailwind CSS.
- Migrated legacy codebases to modern state management with Zustand, improving maintainability and reducing bundle size.
- Designed and consumed Django REST Framework APIs for a job portal and candidate tracking system, including authentication, permissions, and serializer optimization.
- Integrated GraphQL (Apollo) and REST (RTK Query) APIs for efficient data flow.
- Implemented push notification workflows for real-time updates and user engagement.
- Collaborated closely with designers to deliver pixel-perfect, animation-rich UI/UX.

SELECTED AI PROJECTS

AI Social Media Manager & Client Booking Agent | Edutechs

- Built an AI agent that communicates with clients via chat (Facebook/Instagram-style flows), understands intent, answers queries, and qualifies leads automatically.
- Implemented meeting booking automation by syncing client conversations with calendar availability.
- Designed agent workflows with tool calling, conversation memory, and human-in-the-loop handoff to the sales team.
- **Stack:** React Native, Node.js, LangChain, OpenAI API, Firebase, Supabase and Chrome DB

AI Marriage Counseling Agent | Edutechs

- Developed an empathetic AI counseling agent for relationship and marriage guidance with safety-aware prompt design.
- Built multi-turn conversation flows with structured reasoning and guided decision support.
- Implemented memory systems that retain user context across sessions while respecting privacy boundaries.
- **Stack:** LangChain, OpenAI API, Vector DB, Next.js, Express Js

EDUCATION

B.Sc. in Computer Science & Engineering
Bangladesh University of Business and Technology (BUBT) | 2023 – Present

Diploma in Computer Engineering
Mangrove Institute of Science and Technology | 2019 – 2023