Riazul Islam

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Full Stack AI Engineer

Experienced Full Stack AI Engineer building scalable web applications and AI-powered systems. Proficient in TypeScript and Python, LLM orchestration, RAG, multi-agent workflows, and production grade backends.

WORK EXPERIENCE

ESAP AI • Remote • 01/2025 - Present
Full Stack AI Engineer • Full-time

- Architected production FastAPI system with natural-language SQL agent using LLMs, enabling non-technical users to query MSSQL databases through conversational interfaces with 95% query accuracy
- Built semantic search and file management system with embeddings-based retrieval, AI-assisted Excel-to-database mapping, and background job processing using Redis/Celery for 1000+ concurrent file operations
- Contributed to **esap.ai** animated and interactive UI components using Next.js and modern animation, increasing user engagement and reducing bounce rates by 25%.

Radyan Corporation • Remote • 05/2022 - 12/2024
Full Stack Engineer • Full-time

- Architected and delivered two scalable, production-grade web solutions using Next.js and NestJS, achieving a 40% reduction in load time.
- Managed deliverables for a 10-person team, enforcing code quality standards and mentoring 5+ junior developers resulting in 30% faster onboarding and project delivery.

PROJECTS

Zyro
https://zyro37.vercel.app

- Built multi-agent code generation system using Inngest Agent Kit with 3 specialized agents (Code, Title, Response) coordinating to generate full-stack Next.js applications from natural language prompts
- Implemented secure E2B sandbox execution with isolated environments, hot module reloading, and shareable preview URLs for real-time application testing
- Designed encrypted multi-provider AI system (AES-256-GCM) supporting 5 LLM providers (Gemini, OpenAI, Anthropic, xAI, OpenRouter) with user-controlled API keys

Pingpanda
https://github.com/riaz37/Pingpanda37.git

- **Architected a LangGraph multi-agent system with a** Strategic Supervisor for autonomous planning, integrating Jira and GitHub data via RAG and Pinecone.
- **Developed a real-time risk analysis engine** (deadline, velocity, churn, PR, financial, efficiency analyzers) with data from Jira, Linear, and GitHub, backed by **RAG**.
- Designed human-in-the-loop approval system for sensitive operations with SSE-based real-time reasoning traces, enabling transparent AI decision-making

Exorous Code
pip install exorous

- Developed CLI coding agent like Claude Code with semantic search using ChromaDB and AST-based code chunking for intelligent retrieval across large codebases
- Engineered knowledge graph system tracking cross-file symbol relationships and import chains for context-aware code generation and navigation
- Implemented MCP integration for external tool servers, specialized subagents (code review, investigation), and long-term memory persisting project conventions across sessions

SKILLS

- **AI Engineering:** Langchain, Langgraph, Langsmith, LLM, RAG, Prompt Engineering, Agentic Workflows, MCP, Embeddings
- **Front-End Development:** JavaScript, TypeScript, ReactJS, NextJS, GSAP, Motion, Tailwind CSS, Redux, Axios, Zustand
- **Back-End Development:** NodeJS, NestJS, ExpressJS, Python, FastAPI, GraphQL, tRPC, WebSocket, Socket.IO, Kafka, RabbitMQ
- **Database:** MongoDB, PostgreSQL, NeonDB, Redis, Vector DB
- **DevOps:** Linux, Docker
- **Version Control:** Git, Github

EDUCATION

B.Sc in Industrial and Production Engineering
MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY (MIST)
Dhaka, Bangladesh

CERTIFICATIONS

Associate AI Engineer for Developers
Datacamp

Scientific Computing with Python
freeCodeCamp

JavaScript Algorithms and Data Structures
freeCodeCamp

Responsive Web Design
freeCodeCamp

Front End Development Libraries
freeCodeCamp

Standford University's Code In Place
Code In Place