

Faridul Reza Sagor

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SUMMARY

Full-stack and AI engineer with 3+ years of experience building production systems across **LLM pipelines, RAG architectures, and high-scale web applications**. Recent work includes optimizing a LangGraph-based RAG pipeline (28% latency reduction, 15% accuracy improvement) and scaling a SaaS platform to support 1,500+ concurrent users. Comfortable owning end-to-end delivery across the stack — from NestJS and FastAPI backends to React frontends, Unity-WebGL integrations, and AWS/GCP/Cloudflare infrastructure. Approach: identify the problem first, then choose the right tool.

SKILLS

AI / ML	LangChain, LangGraph, RAG pipelines, OpenAI API, DeepGram, prompt engineering
Backend	NestJS, Python FastAPI, Node.js, REST APIs, WebSockets, MongoDB, PostgreSQL, Firebase
Frontend	ReactJS, Next.js, React Query, Web Workers, Unity WebGL, Chrome Extensions
Cloud / DevOps	AWS (EC2), GCP, Cloudflare, Docker, CI/CD, Coolify
Integrations	Stripe, RevenueCat, PostHog, Intercom, Google Drive / OneDrive / Dropbox, Pinterest / Facebook / WordPress APIs
Mobile	Capacitor (iOS), Play Console & App Store deployment
Languages	JavaScript / TypeScript, Python, C/C++, Java, C#
Foundations	Data structures & algorithms (1200+ problems solved), system design, problem solving

EXPERIENCE

Backend & AI Engineer Jul 2025 — Present

AskTuring.ai Remote

- **Optimized the production RAG pipeline** built on LangGraph, reducing latency by ~28% and improving retrieval accuracy by ~15% across multiple benchmarks.
- **Led core LLM pipeline overhaul** — introduced asynchronous task execution, consolidated compatible steps, enabled parallel processing, and eliminated redundant operations alongside other key architectural improvements.
- **Led end-to-end SaaS performance optimization** to support 1,500+ concurrent users by resolving database session bottlenecks, tuning system limits, reducing initial request volume, optimizing queries, and driving stress-testing initiatives.
- **Lead a small engineering team** while remaining hands-on in development, owning both technical execution and delivery.
- Designed and implemented a **complex Stripe payroll** with custom subscription logic supporting multiple pricing tiers and access scenarios.
- Owned and developed multiple core frontend modules including **file management and user management**, ensuring scalability and maintainability; optimized large-dataset performance using **Web Workers and React Query**.
- Implemented file and folder uploads from local devices and third-party integrations including **Google Drive, OneDrive, and Dropbox**.
- Established and enforced custom **ESLint rules and coding standards**, improving frontend code quality, consistency, and long-term maintainability.
- Integrated analytics and customer engagement tools including **PostHog and Intercom** for product insights and user communication.
- Built **event-driven user messaging pipelines** using PostHog, Loops, and custom Python schedulers for timely, personalized user engagement.
- Maintained pipeline stability while introducing new capabilities; documented the full system architecture using **Mermaid diagrams**.

Software Engineer Apr 2024 — Jun 2025

Learnyx AI — New York, USA Remote

- Developed **Unity-based dynamically generated games** connected with AI-generated stories, achieving seamless integration where Unity and the React web app interact bidirectionally.
- Built a **character-assembly system** that lets story characters interact within the game, plus a **comic-book-style storytelling system** reusing the same characters.
- Developed the **NestJS backend** and handled API integration; managed a **FastAPI backend with LangChain** for AI-related tasks.
- Designed and implemented the backend for **LitZone**, a baseball fantasy league for kids — including real-time **WebSocket-based draft** mechanics — and integrated critical features on the frontend.
- Managed deployments using **Coolify**; troubleshooting across EC2 instances and Cloudflare.
- Integrated **RevenueCat** payments into a Capacitor iOS app and managed App Store deployment.

Full-Stack Software Developer Jan 2020 — Apr 2024

Freelance — Fiverr Level 2 Seller

- Delivered custom, high-performance software for international clients across front-end, back-end, and automation.
- Built numerous **Chrome extensions** with backend services and admin panels.
- Developed diverse **automation systems** tailored to client workflows.
- Translated client requirements into shipped solutions; managed multiple concurrent projects while maintaining quality and deadlines.

SELECTED PROJECTS

- **Automated WordPress image generator** — Prompt-engineered Midjourney pipeline for professional photo generation; built scalable image-generation service on GCP microservices; auto-publishes to WordPress, Pinterest, and Instagram via REST APIs. [\[link\]](#)
- **Browser extension for AI meeting analysis** — Records browser tab audio and mic input, transcribes via DeepGram, then uses OpenAI to summarize, answer questions, and generate quizzes from the recording.
- **Real-time business stats from Gmail** — Uses Google Pub/Sub to listen for new mail, with a custom polling fallback; pushes parsed statistics to Google Sheets in real time.
- **Etsy listing scheduler and analytics** — Schedules listing and announcement publication times; multi-shop dashboard. [\[link\]](#)
- **SUST CSE Carnival 2024 ePayment system** — Built and supervised the payment system using sslcommerz API; served as server administrator for the event.
- **EdalCAD — modified FreeCAD distribution** — Forked FreeCAD; removed unused workbenches, developed new ones, restyled the UI, and packaged a Windows installer with NSIS. [\[link\]](#)
- **SUST Bus Service — real-time bus tracking** — Android app tracking organizational buses with no extra hardware; custom geofencing for arrival alerts at user-selected locations. [\[link\]](#)

ACCOMPLISHMENTS

- **Champion — DU ITVERSE 2023 Hackathon (Open API track)**, Nov 2023. Built an interactive map web app for real-time air-quality and socio-economic data comparison across cities.
- **Second Runner-up — SUST SWE Technovent 2023 Hackathon**, Jan 2023. Built a browser extension that analyzes Google Meet video feeds to detect inattentive attendees and generate attention reports for online classes.
- **1,200+ problems solved** on competitive programming judges (LightOJ, Codeforces) — Jan 2019 to present.
- **Fiverr Level 2 Seller** — sustained client satisfaction and repeat business across three years of international freelance work.

EDUCATION

B.Sc. in Computer Science & Engineering Graduated Oct 2024

Shahjalal University of Science and Technology · GPA: 3.72 / 4.0

INTERESTS

Competitive programming · Compilers & parsers · Chess · Languages: English (C1)