Moniruzzaman Mahdi

Full Stack Developer
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PROFESSIONAL SUMMARY

Full Stack Developer who builds production platforms with NestJS, Next.js, and PostgreSQL at Kodevio Limited, owning the backend and admin panel of client mobile apps through App Store and Google Play release. Delivered an AI tutoring app with a RAG pipeline and native in-app purchases and a music platform with mobile money payments, with more in active development. Experienced in secure payments, real-time systems, AI document pipelines, and observability.

SKILLS

Frontend: React.js, Next.js, TypeScript, Tailwind CSS, Shadcn UI, TanStack Query, Framer Motion, GSAP, Three.js
Backend & API: Node.js, NestJS, Express.js, Go, Echo, REST APIs, WebSockets (Socket.IO), SSE, Authentication, RBAC
Databases & Caching: PostgreSQL, pgvector, Prisma, Redis, MongoDB, RxDB, SQLite
AI & Cloud/DevOps: RAG, OpenAI API, MinerU OCR, AWS (EC2, S3, SES, SNS), Docker, MinIO, Dokploy, GitHub Actions
Payments: Apple StoreKit 2, Google Play Billing, Stripe, ChapChapPay, SSLCommerz
Observability: OpenTelemetry, OpenObserve, Prometheus, Grafana, Loki

EXPERIENCE

Full Stack Developer, Kodevio Limited (Dhaka) *August 2026 - Present*

- Own the NestJS backend and Next.js admin panel for client apps: Study Buddy, Muouzik (live); Juxsa, GensVictrix (in development)
- Juxsa: building the backend and admin panel for a nurse and caregiver app, including an AI ingestor that drafts topics from PDFs or links for authority review
- GensVictrix: developing a music platform on the same architecture as Muouzik
- Integrate Apple StoreKit 2, Google Play Billing, and ChapChapPay mobile money with verified webhooks and server-side entitlements
- Deploy with Docker and GitHub Actions on AWS (EC2, Route 53, S3, SES, SNS); monitor with OpenTelemetry, OpenObserve, Prometheus, Grafana, Loki

Full Stack Developer, Rank Nexis (Remote) *January 2026 - July 2026*

- Delivered responsive Next.js client websites and full-stack tools, and collaborated with design and marketing to improve UI/UX

PROJECTS

Study Buddy - AI Tutoring and RAG Platform **mahdimonir.dev/projects/study-buddy**

Client project (backend and admin panel), live on the App Store and Google Play. Technologies: NestJS, Next.js, PostgreSQL, pgvector, Prisma, Redis, MinIO, MinerU, OpenTelemetry, OpenObserve, Docker

- Implemented server-authoritative subscriptions with Apple StoreKit 2 and Google Play Billing webhooks, so Pro access always follows the store's verified state
- Built a COPPA-style parental consent flow (age detection, tokenized consent with audit trail) that blocks minors from AI features until a parent approves
- Built a pgvector RAG pipeline (structure-aware chunking, query reformulation, similarity gating) so every AI answer cites its source material
- Built a MinerU OCR pipeline with OpenAI Vision fallback that extracts LaTeX, tables, and diagrams from 200+ page PDFs
- Built a Socratic AI tutor with SSE streaming and chart tool calling, plus free vs. Pro daily quotas
- Added OpenTelemetry and OpenObserve observability and a Next.js admin dashboard with MRR/ARR analytics and AI cost telemetry

Muouzik - Universal Music Platform **mahdimonir.dev/projects/muouzik**

Client project (backend and admin panel), live on the App Store and Google Play. Technologies: NestJS, Next.js, PostgreSQL, Prisma, Socket.IO, AWS (EC2, S3, SES), Docker, Dokploy

- Integrated ChapChapPay mobile money (Orange Money, MTN MoMo) with webhook-based fulfillment, wallet top-ups, and deep links
- Implemented ownership-gated audio streaming with AWS S3 presigned URLs, so only buyers can play paid tracks
- Built a NestJS REST and WebSocket API with 13 modules and 5-role RBAC (user, artist, moderator, staff, admin)
- Added real-time notifications and support chat with Socket.IO, and email delivery with AWS SES and automatic Gmail failover
- Built a Next.js admin portal for artist verification, moderation, support, and payouts; deployed on AWS EC2 with Dokploy

EDUCATION

Bachelor of Science (B.Sc.), National University, Bangladesh *2025 - Present*

COURSES AND CERTIFICATIONS

- MERN Stack Web Development, Interactive Cares, Batch 3
- Next Level Web Development, Programming Hero, Batch 6
- System Design, Chai aur Code, Cohort 1

LANGUAGES

Bengali (Native), English (Professional)