

Md. Ramjan Miah

Full Stack Software Engineer

Dhaka, Bangladesh · B220305006@cse.jnu.ac.bd · +8801865043081 · linkedin.com/in/ahmedtrooper
github.com/AhmedTrooper · ahmedtrooper.vercel.app

Availability: 8:00 PM – 5:00 AM BDT (Matches US EST Business Hours)

EDUCATION

Jagannath University

Dhaka, Bangladesh

B.Sc. in Computer Science and Engineering

TECHNICAL SKILLS

- **Languages:** Rust, TypeScript, Python, Go, Dart, SQL
- **Frontend:** Next.js, React, **Tauri**, **Flutter**, Vue.js, Tailwind CSS, **Zustand**, **TanStack Query**, Redux Toolkit
- **Backend:** NestJS, **FastAPI**, Django DRF, Node.js, **GraphQL**, PostgreSQL, Redis, Prisma
- **DevOps & Cloud:** Docker, **AWS**, **GitHub Actions**, Git, Cloudflare
- **AI & Tools:** LangChain, LangGraph, Keras, TFLite, Pandas, NumPy, FFmpeg, Zod

PROFESSIONAL EXPERIENCE

Shaitrish (EdTech Startup)

Aug 2025 – Present

Full-Stack Web Developer (Remote)

- Contributing to **Course37**, a production-grade SaaS LMS **engineered to scale for millions of users**.
- Enhanced the website builder backend (redirection logic, status messaging) and refined **Zod** schema validation in authentication flows to enforce strict type-safety across the Monorepo.
- *Stack:* **NestJS**, **Next.js**, Redis, JWT, Google Auth, Prisma, PostgreSQL, **LangChain**, **OpenCV**, **pgvector**, Cloudflare.

Freelance & Open Source

2021 – Present

Full-Stack Software Developer

- Delivered production-grade cross-platform apps (Tauri/Rust/Flutter), migrated legacy Electron systems for performance, and maintain active open-source developer tools.

KEY PROJECTS

Polyglot-Folio – Engineering Portfolio Directory

<https://github.com/AhmedTrooper/Polyglot-Folio>

Stack: Markdown

- A **centralized directory of my engineering portfolio**, categorized by technology stack and programming language.

AI-FestManagement – AI-Powered Event Platform

Source Code

Stack: Next.js, Django REST, GraphQL, Zustand, Hero UI, LangChain, FastAPI, AWS

- Deployed a cloud-native event system on **AWS** with automated scaling for high-traffic registration periods.
- Implemented autonomous AI agents using **FastAPI** and LangChain to handle attendee queries and schedules.

DevOpsEasy – Docker Management GUI

Source | Releases

Stack: Tauri v2 (Rust), React, TypeScript, Zustand, Docker API, GitHub Actions

- Engineered a native performance Docker GUI with real-time monitoring of CPU, memory, and network I/O.
- Achieved **95% memory reduction** (61MB vs 1GB+) and **25MB installer** compared to Docker Desktop by leveraging Rust.

RailwayMatrixBD – Route Optimization Engine

Source | Releases

Stack: Tauri v2 (Rust), React, TypeScript, Zustand, GitHub Actions

- Utilized by **270+ users** for complex route planning on the **Bangladesh Railway network**.
- Developed a matrix-based $N \times N$ routing algorithm to query all station combinations in a single operation.

OSGUI / OSD-Downloader – Media Processing Tool

Source | Releases

Stack: Tauri v2, React, TypeScript, Zustand, SQLite, FFmpeg, GitHub Actions

- Built a multi-threaded 'yt-dlp' GUI wrapper managing a custom FFmpeg video processing pipeline.
- Achieved **global open-source adoption**, receiving active **feature requests** from international users (e.g., **China**).

ML-Detector – Edge AI Mobile App

Source | Releases

Stack: Flutter, Keras, TFLite

- Deployed offline CNN on mobile devices using TFLite, achieving **~95% accuracy** in disease detection.

ACHIEVEMENTS

- **Math Olympiad: Winner**, Regional Math Olympiad; Contestant, National Math Olympiad.
- **Participations:** VisionX 2025 (AI Innovation), NASA Space Apps Challenge 2025, IUT Fest 2024.