Md. Ramjan Miah

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Portfolio: ahmedtrooper.vercel.app

Education

Jagannath University, Dhaka, Bangladesh

Bachelor of Science in Computer Science   Expected: 2027 | Current Semester: 4th (2.2)

Professional Experience

Full-Stack Web Engineer (Contributor)   Aug 2025 – Present

Shaitrish (Remote)

- Collaborating with CEO on **production-grade** CMS (Admin Backend/Frontend, Student Frontend) supporting **real-time collaboration**
- **Fixed and optimized Zod-based input verification** in authentication flow, **improving accuracy and consistency**
- Tech Stack: NestJS, Next.js, ShadCN, TypeScript, Redis, JWT, Google Auth, Prisma, PostgreSQL, Cloudflare, Huli

Projects

RailwayMatrixBD – Full-Stack Desktop Application   Source | Releases

*Stack: **Tauri v2 (Rust)**, React, TypeScript, **Zustand***

- Built cross-platform desktop app with **two advanced features unavailable** in official Bangladesh Railway app
- **Matrices-based n×n route query**: **Automatically** queries all station combinations in one click, **saving $\sim$n × [time per query] seconds** compared to manual process
- **Segmented ticket search for indirect routes** when direct tickets unavailable; **reduces API load via local processing**

OSGUI/OSD-Downloader – Full-Stack Desktop Application   Source | Releases

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

- Built **lightweight GUI for yt-dlp** with **concurrent downloads**, queue management, and **FFmpeg video processing** integration
- **Outperforms** Persepolis (**6.9k stars**) with **1000+ site support**, real-time add/pause/resume, and enhanced download control

ML-Detector – Cross-Platform Mobile Application   Source | Releases

Stack: Flutter, Keras, flutter_tflite, image_picker

- Built **offline** tea leaf disease detection app with on-device CNN **achieving $\sim$95% accuracy**; camera/gallery input support

AIFestManagement – Full-Stack Web & AI Platform   Source Code

Stack: Django REST, React, Hero UI, Zustand, LangChain, LangGraph

- Building **centralized** fest platform with admin/user roles, **AI-powered queries**, and **role-based access workflows**

JnU-Bus-Routes – Mobile Application   Source | Releases

*Stack: Flutter, SQLite, **Riverpod***

- Built **offline-first** campus bus tracking app covering **all university routes** with **enhanced UI/UX** and accessibility

Technical Skills

Languages: Python, **TypeScript**, **Rust**, **Golang**, Dart, Kotlin, JavaScript, Java, C++, C

Frontend & GUI: React, Next.js, Vue.js, Flutter, Tailwind CSS, ShadCN, Hero UI, Framer Motion, SlintUI

Backend: Node.js, NestJS, Express, Django DRF, Tauri

AI/ML: LangChain, LangGraph, Pandas, NumPy, CNN Model Training, Offline Model Integration

Database & ORM: PostgreSQL, MongoDB, MySQL, Supabase | Prisma, Mongoose

DevOps & Tools: Docker, Git, GitHub, Cloudflare, Redis, FFmpeg, Zod, Zustand, Pinia

Platforms: Linux, Web, Android, Windows, macOS

Achievements & Participations

Winner, Regional Math Olympiad | Contestant, National Math Olympiad

Participant, IUT Fest 2024 | Participant, NASA SpaceX Challenge 2025