Md. Ramjan Miah

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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)

Shaitrish (Remote)

Aug 2025 – Present

- Collaborating with CEO on **production-grade** CMS (Admin Backend/Frontend, Student Frontend) supporting **real-time collaboration**
- Optimized Zod-based authentication validation, improving accuracy and consistency for scalable microservices architecture
- Tech Stack: Nest.js, Next.js, ShadCN, TypeScript, Redis, JWT, Google Auth, Prisma, PostgreSQL, Cloudflare

Projects

RailwayMatrixBD - Full-Stack Desktop Application

Stack: Tauri v2 (Rust), React.js, TypeScript, Zustand

Source | Releases

- Built cross-platform desktop app with two advanced features unavailable in official Bangladesh Railway app
- Matrices-based $n \times n$ route query: Automatically queries all station combinations in one click, saving $\sim n \times [$ 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 Stack: Tauri v2, React.js, TypeScript, Zustand, SQLite, FFmpeg

Source | Releases

- Built lightweight GUI for yt-dlp with concurrent downloads, pause/resume, and FFmpeg video processing integration
- ullet Optimized CPU and memory footprint by 40%; outperforms Persepolis (100k+ Linux users) in features and UX

ML-Detector - Cross-Platform Mobile Application

Stack: Flutter, Keras, TensorFlow Lite, Image Picker

Source | Releases

■ Built offline tea leaf disease detection app with on-device CNN achieving ~95% accuracy; camera/gallery input support

AIFestManagement – Full-Stack Web & AI Platform

Source Code

 $Stack:\ Django\ REST,\ React.js,\ HeroUI,\ Zustand,\ LangChain,\ LangGraph$

• 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/JavaScript, Rust, Golang, Java, C++, Dart, Kotlin, C

Web & Mobile: React.js, Next.js, Node.js, Nest.js, Django, Express.js, Flutter, Vue.js, Tailwind CSS, ShadCN

AI/ML: LangChain, LangGraph, TensorFlow Lite, Keras, Pandas, NumPy, CNN Model Training

Databases: PostgreSQL, MongoDB, MySQL, Redis | ORM: Prisma, Mongoose

DevOps: Docker, Git, Cloudflare, FFmpeg | Architecture: Microservices, REST APIs, Real-time Systems

Desktop: Tauri (Rust), Electron Alternative | Platforms: Linux, Web, Android, macOS, Windows

Achievements & Participations

Winner, Regional Math Olympiad | Contestant, National Math Olympiad Participant, IUT Fest 2024 | Participant, NASA SpaceX Challenge 2025