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Education

Jagannath University, Dhaka, Bangladesh | BSc in Computer Science | 2023-2027 | 4th semester

Experience

Full-Stack Web Engineer (Freelance)

Aug 2025 – Present *Shaitrish (Remote)*

- Collaborating with CEO on **production-grade CMS**
- **Fixed and optimized Zod-based input verification** in authentication flow, **improving consistency**
- Tech Stack: NestJS, Next.js, ShadCN, TypeScript, Redis, JWT, Google Auth, Prisma, PostgreSQL, Cloudflare, Huli

Full-Stack Software Developer / Freelancer

2021 – Present *Remote / Personal Projects*

- **Mastered MERN stack** (2021): built full-stack **CRUD** and **authentication** apps; advanced to **REST API design**, and built **cross-platform applications** with **Tauri** and **Flutter**; gained proficiency in Python, **Go**, **Rust**
- **Acquired expertise in Django** (Sep 2023) and **Flutter** (Feb 2024); actively **contributed** to **high-impact open-source projects** adopted by the community and used in real-world sector applications (from 2024)

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 $n \times n$ route query**: **Automatically** queries all station combinations in one click, **saving $\sim n \times [\text{time per query}]$ seconds** compared to manual process
- **Segmented ticket search for indirect routes**; **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

AI Fest Management – 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: React, Next.js, Vue.js, Flutter, Tailwind CSS, ShadCN | **Backend:** Node.js, NestJS, Django DRF, Tauri

AI/ML: LangChain, LangGraph, Pandas, NumPy | **Database:** PostgreSQL, MongoDB, Prisma, Supabase

Tools: Docker, Git, Redis, FFmpeg, Zod, Zustand

Achievements & Participations

Winner, Regional Math Olympiad | Contestant, National Math Olympiad

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