MD REZAUL HOSSAIN

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SUMMARY

Passionate about AI and software engineering, eager to work on impactful projects involving machine learning, model training, and intelligent automation and looking to contribute to real-world applications in a collaborative research environment.

EXPERIENCE

Software Engineer, Intern   **Oct 2025 - Present**

Integratr.ai
- Enhanced Next.js frontend for the Education CRM, improving UX and workflow efficiency.
- Developed new FastAPI backend modules for the Education CRM to extend core functionality.

Graduate Teaching Assistant   **Oct 2024 - June 2025**

Department of Computer Science and Engineering │ East West University
Courses/Areas: Algorithms, Data Analytics

Undergraduate Teaching Assistant   **Oct 2023 - Oct 2024**

Department of Computer Science and Engineering │ East West University
Courses/Areas: Algorithms and Machine Learning

PROJECTS

Video Sharing Platform │ Source Code

(Backend) — Node.js, Express, MongoDB

Implemented user auth, video uploads, subscriptions, likes, comments, playlists, and watch history.

N8Ventory │ Source Code

(Full Stack) — React, FastAPI, PyTest, PostgreSQL, N8N

Implemented Domain-Driven Design (DDD) to manage inventory, orders, and automated billing.

PUBLICATION

Md Rezaul Hossain, Fakiha Rahman Soha, Tajkiratul Abida Ananna, Ruba Sazeda, Anisur Rahman, "Leveraging MFCC Features for Bangla Audio Emotion Classification Using a ResNet-Transformer Encoder Fusion." Artificial Intelligence & Knowledge Processing'25. │ Accepted, in press

ACADEMIC ACHIEVEMENTS

Merit Scholarship: Awarded Merit Scholarship for maintaining a CGPA above 3.90 in 2022-2023 academic year.

Medha Lalon Scholarship: Awarded the Medha Lalon scholarship for academic excellence in 2020-2021 academic year.

EDUCATION

BSc in Computer Science and Engineering   **2020 - 2024**
East West University   │   CGPA: 3.71/4.00

Higher Secondary Certificate   **2018**
Brahmanbaria Govt. College   │   CGPA: 4.67/5.00

TECH STACK

C++, Python, TypeScript, JavaScript │ FastAPI, React.js, Express.js, Mongoose, SQLAlchemy, Multer, N8N │ MongoDB, PostgreSQL, Cloudinary │ Appwrite, Node.js, Tailwind CSS