

A. M. RAFINUL HUQ

BACKEND ENGINEER

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SUMMARY

Aspiring Backend Engineer with Hands-On Experience in Backend Systems and Machine Learning. I have built multiple self-driven projects using NestJS, Node.js, PostgreSQL, and Python, gaining practical experience in designing scalable APIs, managing databases, and developing backend logic. In addition, I've explored machine learning with Python, applying libraries like scikit-learn, Pandas, and NumPy to real-world datasets and building small AI-powered features. With a strong interest in AI systems and a deep focus on writing clean, maintainable code, I'm eager to contribute to impactful projects and grow within a fast-paced, modern tech environment.

PROJECTS

Traveller Social Media App

[GitHub](#)

NestJS · PostgreSQL · TypeORM · JWT · Swagger

- Developed a RESTful backend for a travel-focused social media platform
- Implemented user auth (JWT), profile management, and privacy controls
- Built features: posts with media & location, follow system, comments, messaging
- Used PostgreSQL with TypeORM for data modeling and migrations
- Documented APIs using Swagger for easy frontend integration

Telco Customer Churn Prediction using SVM

[GitHub](#)

Python · Scikit-learn · Pandas · Matplotlib

- Built an end-to-end machine learning pipeline to predict telecom customer churn
- Performed data cleaning, exploratory analysis, feature encoding, and scaling
- Trained and tuned an SVM classifier using GridSearchCV for optimal parameters
- Evaluated model with confusion matrix and classification metrics, achieving ~79% test accuracy
- Applied practical data science techniques on a real-world dataset from Kaggle

SKILLS

Backend Development

- API Design
- Authentication (JWT)
- Databases (PostgreSQL, MongoDB)

Programming

- JavaScript, TypeScript, Python

Machine Learning

- Scikit-learn, Pandas, SVM

Tools

- Git, Postman, Swagger

EDUCATION

Bachelor of Computer Science and Engineering

Sep 2021 - Sep 2026

American International University-Bangladesh

- Relevant coursework: Data Structures, Algorithms, Database Systems, Software Engineering

ADDITIONAL INFORMATION

- **Languages:** English, Bangla
- **Certifications:** [JavaScript DSA](#), [Python](#)
- **Awards/Activities:** Volunteer at ESAB (Engineering Students' Association of Bangladesh), Member of The Duke of Edinburgh's International Award.