



Md Faisal Ahmed

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ABOUT ME

Computer Science graduate (BSc, First Class Honours) from North South University with **3+ years of experience** as a **Backend Developer, AI Engineer, and Automation Engineer**. Experienced in designing scalable backend systems, cloud infrastructure, AI-powered applications, and workflow automation using **LangChain, LangGraph, n8n**, and modern backend technologies. Strong background in applied NLP research and building production-ready solutions that combine AI with software engineering. Passionate about leveraging emerging technologies to develop intelligent, scalable, and impactful products while continuously expanding expertise through research and innovation.

EDUCATION AND TRAINING

Bachelor of Science in Computer Science and Engineering

North South University [01/05/2022 – 01/08/2022]

City: Dhaka | Country: Bangladesh | Level in EQF: EQF level 6

Algorithms and Data Structures, Software Engineering, Database Management Systems, Applied Artificial Intelligence, Machine Learning, Computer Networks, Object-Oriented Programming, Web Technologies

Higher Secondary Certificate (HSC) – Science

Government Science College [01/09/2015 – 01/07/2017]

City: Dhaka | Country: Bangladesh | Level in EQF: EQF level 3

Physics, Chemistry, Mathematics, Biology, English

WORK EXPERIENCE

Inception Games – Dhaka, Bangladesh

Software Engineer – Team Lead

[01/04/2026 – Current]

- Architected and built the complete backend system from scratch for a live GCP-deployed esports platform using Node.js, Express.js, and MySQL.
- Designed and developed RESTful APIs, integrated payment gateways, and built the admin panel.
- Set up and maintained CI/CD pipelines using Google Cloud Build and App Engine.
- Led a team of backend engineers and managed end-to-end cloud infrastructure on GCP.

Fly Far Tech – Dhaka, Bangladesh

Junior Back-End Engineer

[01/01/2023 – 30/09/2024]

- Developed and optimised RESTful APIs using Node.js and NestJS powering multiple live travel-tech applications.
- Improved MySQL performance through query optimisation and schema tuning.
- Integrated payment gateways including SSLCommerz, bKash, Nagad, and Amapay.
- Integrated Sabre and Galileo GDS APIs for flight and hotel booking systems.
- Implemented JWT authentication with role-based access control (RBAC) across multi-tenant applications.

 **North South University** – Dhaka, Bangladesh

Research Assistant – Natural Language Processing

[01/01/2022 – 01/09/2026]

- Conducted research in NLP, machine learning, and deep learning for Bangla language text classification.
- Developed a hate speech detection model using GRU, Attention Mechanisms, and fine-tuned BERT, achieving 98.87% accuracy.
- Published research at the 2023 Asian Conference on Innovation in Technology (IEEE-indexed).

 **Data Science Dokkho Programme** – Dhaka, Bangladesh

AI Engineer

[01/08/2025 – 01/03/2026]

- Completed advanced applied AI and ML projects covering NLP, deep learning, and computer vision.
- Built and deployed multi-label text classification systems using Transformers, Hugging Face, and BLURR.
- Developed image recognition pipelines using CNNs and PyTorch with ONNX export for optimised deployment.
- Gained hands-on experience in data scraping, exploratory data analysis, preprocessing, and dataset engineering.

SKILLS

Programming & Development

use software libraries / define technical requirements / analyse software specifications / apply object-oriented programming / develop software prototypes / use functional programming / perform software testing / software debugging / version control / use application programming interfaces

Backend & Cloud

develop with cloud services / use cloud technologies / ICT system integration / manage database / manage server infrastructure / web programming / implement software configuration management / ICT network management

AI / Machine Learning / NLP

apply machine learning / natural language processing / deep learning / data science / data mining / data analysis / statistical analysis / computer vision / apply deep learning algorithms

Data & Research

conduct literature research / scientific research / perform data analysis / collect data / present reports / write research papers

Tools & Workflow

use collaborative software / apply project management methods / ICT project management

Soft Skills

teamwork / leadership / problem solving / critical thinking / communication / time management

Extracurricular Activities

Social Services Club / Bangladesh National Cadet Corps (BNCC) Developed discipline, teamwork, and leadership skills

LANGUAGE SKILLS

Mother tongue(s): Bengali

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** C1

SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

[2023]

Bangla Hate Speech Detection System Using Transformer-Based NLP and Deep Learning Techniques Developed an automatic Bangla hate speech detection system using NLP and deep learning on a merged dataset of 4,978 samples. Applied preprocessing techniques (tokenization, stemming, stopword removal) and evaluated four classifiers. The GRU model achieved 98.87% accuracy, with an Attention-based model reaching 98%

Authors: Omar Faruque Electrical and Computer Engineering, North South University, Dhaka, Bangladesh ; Mubassir Jahan; Md. Faisal; Md. Shahidul Islam; Riasat Khan | **Journal Name:** 2023 3rd Asian Conference on Innovation in Technology (ASIANCON)

[2024]

Project Schedule Delays and Circular Effects of Socio-Economic and Environmental Impacts - A Case of Bangladeshi Mega Projects Investigated schedule delays and circular economic/environmental impacts of Bangladesh's two largest megaprojects — the Padma Bridge (\$3.6B) and Dhaka Metro Rail (\$2.8B) — using NLP-based sentiment analysis and qualitative methods. Collected data from 60 participants including engineers, contractors, and beneficiaries. Sentiment analysis yielded positive-to-negative ratios of 4:1 (Padma Bridge) and 3:2 (Metro Rail). Identified key delay factors and proposed mitigation strategies including advanced technology adoption, sustainable practices, and collaborative risk management

Authors: Syed Mahmud Husain, Md. Faisal, Kamrul Hasan | **Journal Name:** International Journal of Management and Applied Science (IJMAS)-IJMAS | **Volume, Issue and Pages:** Volume-10, Issue-4 (Apr, 2024)