

# Faisal Hossain

## Software Engineer

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### Profile

Software Engineer having experience in AWS services, Machine Learning & Web Development. Have a positive outlook, great teamwork abilities, and cooperative tendencies. I can pick things up quickly and have a variety of IT experiences.

### Professional Experience

08/2022 – present  
Dhaka, Bangladesh

**Software Engineer I**  
*Craftsmen Limited* 

- Utilizing AWS technologies such as *Lambda*, *S3*, *SQS*, *SNS*, *DynamoDB*, *API Gateway*, *ECS*, *ECR*, *CodeBuild*, *Step Functions*, *Docker*, *RDS*, *MediaLive*, *Rekognition*, *AppSync* etc.
- Using the *Serverless Framework* to construct and configure AWS Lambda.
- Managing the Infrastructure as Code software tool *Terraform*, to sustain different cloud architecture.
- Creating front-end solutions with Emotion-styled components using *React*.
- Creating and deploying applications with testing capabilities using the *docker* container service.
- Real-time streaming and media transcoding using the *AWS MediaLive & MediaPackage* services.
- Face identification, text detection, and label analysis using *AWS Rekognition* on photos and videos
- Using *AppSync* to create *GraphQL* endpoints for querying many databases, microservices, and APIs from a single *GraphQL* endpoint.

### Skills

#### Programming Languages:

Python, C++, C, Java, PHP, JavaScript, MySQL, HTML, CSS

#### Frameworks and Libraries:

PyTorch, Tensorflow, Heroku, Laravel, Django, React, Emotion-JS

#### Cloud Services & Frameworks:

Lambda, S3, SQS, SNS, DynamoDB, API Gateway, Serverless Framework, Terraform, MediaLive, Rekognition, AppSync

#### Version Control:

Git, Github, Bitbucket, Docker

## Projects

### Machine Learning Research

- Bangla Hate Speech Detection in Videos Using ML. Manually annotating 300 YouTube videos of Bangla text, preprocessing and extracting features with NLP techniques experimented on different conventional machine learning and deep learning models. Conference Paper link [↗](#)
- Bangla Food Review Sentimental Analysis Using Deep Learning techniques Collected raw data from food websites, using NLP techniques pre-processed and extracted features like Vectorizer, Glove, word to sequence for feeding LSTM, RNN models. Conference Paper link [↗](#)
- Worked on Bangla Audio Sentiment Classifier using MFCC and MFCC delta features with pre-trained model employing transfer learning, CNN, cross dataset evaluation with RAVDESS dataset.
- Researched Bangla Sign Language (Image data for classifying in real time using CNN and exploring GAN implementation for generating more image datasets for BSL.

### Web Development [↗](#)

*Eggzam Room*

Built an exam platform using Django framework using SQLite HTML CSS Bootstrap JavaScript and AJAX. Teachers can set courses, exams, and MCQ questions, and students can join courses and attend exams. Heroku link [↗](#)

## Certificates

### Neural Networks and Deep Learning [↗](#)

Coursera - DeepLearning.AI

### Google Cloud Big Data and ML Fundamentals [↗](#)

Coursera - Google Cloud

### Digital Transformation with Google Cloud [↗](#)

Coursera - Google Cloud

### Merit Based Scholarship Award

North South University - 2018

### Programming with C++ & Java

BITM Course

## Education

2018 – 2022

Dhaka, Bangladesh

### BSC in CSE

*North South University*

CGPA - 3.77

2015 – 2017

Dhaka, Bangladesh

### HSC

*Notre Dame College*

GPA - 5.00