Faisal Hossain

Software Engineer

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📇 Profile

Software Engineer with a strong background in AWS services, Machine Learning, and Web Development. With my positive outlook and cooperative tendencies, I thrive in team-oriented environments and am confident in my ability to contribute to any project. Additionally, I possess a diverse range of IT experiences and am able to quickly adapt to new challenges. I am excited about the opportunities ahead and am eager to leverage my expertise to drive innovation and achieve outstanding results.

💼 Professional Experience

08/2022 – Present
Dhaka, Bangladesh

Software Engineer I
Craftsmen Limited ⤴

- Proficient in a wide range of AWS technologies, including Lambda, S3, SQS, SNS, DynamoDB, API Gateway, ECS, ECR, CodeBuild, Step Functions, Docker, RDS, MediaLive, Rekognition, AppSync, and Cognito, to build scalable and secure cloud solutions.
- Experienced in using AWS Cognito for user management and authentication with federated login mechanisms, ensuring secure and streamlined access to cloud resources.
- Developed secure and scalable REST APIs using AWS Lambda (with Python, JavaScript & TypeScript) and API Gateway, incorporating authorization and Test-Driven Development (TDD) methodologies throughout the development cycle.
- Skilled in using AppSync to create GraphQL endpoints, enabling easy and efficient querying of multiple databases, microservices, and APIs from a single endpoint.
- Competent in using the Serverless Framework and Emotion-styled components with React to create high-performing and dynamic serverless applications. Utilizing react state management for creating responsive and dynamic UI.
- Proficient in designing front-end solutions with Vuetify, a material design component framework for Vue.js, ensuring modern and visually appealing user interfaces.
- Adept in utilizing CodePipeline and GitHub for continuous integration and deployment, ensuring efficient and collaborative software development processes.
- Experienced in Infrastructure as Code using Terraform to manage cloud architecture, ensuring consistency and maintainability in production environments.
- Knowledgeable in deploying applications using Docker container service, enabling efficient and automated testing capabilities.
- Adept in real-time streaming and media transcoding with AWS MediaLive & MediaPackage services, providing high-quality video streaming experiences.
- Experienced in using AWS Rekognition for face identification, text detection, and label analysis on images and videos, providing insightful and actionable data.

🧠 Skills

Programming Languages:
Python, JavaScript, Typescript, C++, C, Java, PHP, MySQL, HTML, CSS

Frameworks and Libraries:
React, Emotion-JS, Vuetify, Vue, PyTorch, Tensorflow, Heroku, Laravel, Django

Cloud Services & Frameworks:
Lambda,S3, SQS, SNS, DynamoDB, API Gateway, Serverless Framework, Terraform, MediaLive, Rekognition, AppSync, Cognito

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.

📜 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