

Faisal Hossain

Software Engineer

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📍 Dhaka, Bangladesh

👤 Profile

As a passionate software developer focusing on AWS services, I believe in pursuing knowledge and continuous learning. With nearly **three years** of valuable experience, I embrace the philosophy that *"The only true wisdom is in knowing you know nothing"* -driving me to grow and improve in the ever-evolving world of technology consistently.

💼 Work Experience

Software Engineering Consultant (Full time - Remote)

Mar 2023 – Present | Bergen, Norway

Vimond Media Solutions ✉

At the core of Vimond, it utilizes Amazon Web Services (AWS) as a backbone and other relevant stacks. Below are some of the key points to mention as my role here:

- Develop **AWS-based microservices**, review, and maintain existing code base to ensure high-quality software delivery.
- Enhance and optimize backend services using Java, **Spring Boot**, and AWS services like **Lambda**, **S3**, **DynamoDB**, and **MSK** using IaC **Terraform**
- Engage in **end-to-end** software development, from planning and coding to testing, deployment, and maintenance of various modules
- Write and maintain unit tests (**JUnit**, **Mockito**), integration tests (**Testcontainers**), and load tests (**k6**) to ensure system reliability under various conditions.
- Monitor and troubleshoot production issues using AWS **CloudWatch**, Kibana (**Elasticsearch**), and **Datadog** for observability.
- Engage in customer support and **feature discussions** by analyzing user feedback, prioritizing fixes, and assisting the product manager with **roadmap planning**.
- Collaborate with team members to share knowledge, improve processes, and ensure **best practices** are followed.

Software Engineer I (Full time)

Aug 2022 – Present | Dhaka, Bangladesh

Craftsmen Limited ✉

At Craftsmen, I went through rigorous training initially and had opportunities to work on different internal projects, which helped me enrich my skills:

- Proficient in a wide range of **AWS technologies**, including Lambda, S3, SQS, SNS, DynamoDB, API Gateway, ECS, ECR, CodeBuild, Step Functions, Docker, RDS, AWS OpenSearch, 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, Node, Java) and **API Gateway**, incorporating authorization and Test-Driven Development (TDD) methodologies throughout the development cycle.
- Adept in utilizing **CodePipeline/CircleCi** 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.
- Experienced in using **AWS Rekognition** for face identification, text detection, and label analysis on images and videos, providing insightful and actionable data.

- 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.

Skills

Programming Languages:

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

Frameworks and Libraries:

Node, Springboot, React, NextJS, Emotion-JS, Spring, Vuetify, Vue, PyTorch, Tensorflow, Django

Cloud Services & Frameworks:

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

DevOps

Git, Github, Bitbucket, Docker, Kubernetes, Maven, CircleCI, DataDog

Projects

Machine Learning Research

- Developed an ML model for Bangla hate speech detection by annotating 300 YouTube videos and extracting NLP features. Conference Paper link [↗](#)
- Built a deep learning model for Bangla food review sentiment analysis using NLP feature extraction and LSTM/RNN. 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 explored 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

BSC in CSE

North South University

CGPA - 3.77 / 4.00

2018 – 2022 | Dhaka, Bangladesh

HSC

Notre Dame College

GPA - 5.00 / 5.00

2015 – 2017 | Dhaka, Bangladesh