

SAIFUL ISLAM

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EXPERIENCE

ADN DigiNet Ltd.

Software Engineer — Client: MetLife

May 2025 - Present
Dhaka, BD — Full Time

- Research, Design, and Implement scalable API's
- Worked on various modules of MyLife (first-of-its-kind insurance sales platform)

Sincos Automation Technologies Ltd.

Software Engineer (IIOT)

March 2023 - May 2025
Dhaka, BD — Full Time

- Built EMS Software for **BAT Bangladesh**
- Built OEE Software for **Syngenta Bangladesh**
- Built Manufacturing Control Tower (MCT) Software for **Unilever Bangladesh**
- Responsible for Requirement Analysis and Database Designs
- Developing Backend API using Spring Boot and NodeJs

Spectrum Engineering Consortium Ltd.

Associate Software Engineer

February 2021 - February 2023
Dhaka, BD — Full Time

- Built Multiple complete Software for 'National Board of Revenue (NBR)' for Modern and Automated Ways of Both Existing and New Systems
- Worked with the **ML** Team to Implement Research Paper and Contribute to the Workflow
- Contributed in **SDLC**, from Requirements Definition to Successful Deployment
- Developed **REST APIs** Using Java Spring Boot and Managed API security
- Worked Closely with Clients to Establish Problem Specifications, System and Database Designs
- Tested, Coded, Reviewed, and Delivered Software with on-time Record and According to Service Level Objectives

EDUCATION

Ahsanullah University of Science and Technology

B.Sc. in Computer Science & Engineering

Total Credits Completed: 161.25 out of 161.25

Thesis: Deep Learning Based Video Captioning in Bengali

Thesis Supervisor: Faisal Mahmud Shah

March 2016 - December 2020
CGPA: 2.964 out of 4

PUBLICATIONS

o.I Journal Article

- **Islam, Saiful**, Aurpan Dash, Ashek Seum, Amir Hossain Raj, Tonmoy Hossain, and Faisal Muhammad Shah. Exploring video captioning techniques: A comprehensive survey on deep learning methods. *SN Computer Science*, 2(2):1–28, 2021

o.2 Conference Proceedings

- Amir Hossain Raj, Ashek Seum, Aurpan Dash, **Islam, Saiful**, and Faisal Muhammad Shah. Deep learning based video captioning in bengali. In *2021 26th International Conference on Automation and Computing (ICAC)*, pages 1–6. IEEE, 2021
- Md Islam, Monjurul Haque, **Islam, Saiful**, Md Mia, Zesun Ahmed, SMA Rahman, et al. Dcnn-lstm based audio classification combining multiple feature engineering and data augmentation techniques. In *International Conference on Intelligent Computing & Optimization*, pages 227–236. Springer, 2021
- Md Zesun Ahmed Mia, Md Moinul Islam, Monjurul Haque, **Islam, Saiful**, and SMA Mohaiminur Rahman. Irfd: A feature engineering based ensemble classification for detecting electricity fraud in traditional meters. In *2021 24th International Conference on Computer and Information Technology (ICCIT)*, pages 1–6. IEEE, 2021
- Tanvina Khondokar, **Islam, Saiful**, Tasmia Ishrat Alam Chadni, and Iftakhar Ali Khandokar. Boosting text classification performance for unlabeled data with semi-supervised learning. In *2023 IEEE 9th International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE)*, pages 7–12, 2023
- Tanvina Khondokar, **Islam, Saiful**, Tasmia Ishrat Alam Chadni, and Iftakhar Ali Khandokar. A drug dose control and cancer patient monitoring system based on the internet of things (iot) with integrated cloud and 5g protocol. In *2023 26th International Conference on Computer and Information Technology (ICCIT)*, pages 1–6, 2023

TECHNICAL STRENGTHS

Programming Language	Python, C/C++, JavaScript, Java
Machine Learning Frameworks	PyTorch
Python Library	Scikit-learn, OpenCV
Databases	PostgreSQL, MSSQL, Spring JDBC, Spring Data JPA, Hibernate, Redis
Web Frameworks	Angular, Spring Boot, Spring Security
Protocols & APIs	JSON, XML, MQTT, REST, RabbitMQ
Operating Systems	Windows, Linux Distro
Others	Git, Docker, JWT, Microservice, Node-RED, Shell scripting, LaTeX (Overleaf)

ACADEMIC PROJECTS

- Vision Transformer From Scratch *Tools: Pytorch*
Vision Transformer Paper Implementation with Few Minor Changes
- Detection of Plastics in River *Tools: YOLOv8*
Detecting Various Plastics in River Water using Ultralytics YOLOv8
- U-NET From Scratch *Tools: Pytorch*
Original U-NET Paper Implementation
- Swap within Image *Tools: Python*
Data Augmentation Technique by swapping annotated objects within an image
- Variational Autoencoder (VAE) From Scratch *Tools: Pytorch*
Original VAE Paper Implementation with Few Minor Changes

PARTICIPATION AND WORKSHOP

- Participation at Robi Datathon 2.0 (2022)
- Participation in Hackathon at FormulaAI Hack 2022
- Participation in Idea Contest at DU FABFEST-2018
- Participation in Hackathon at BUP ICT FEST-2018
- Participation in Project Showcase (Software) at CODEWARE-2018, AUST
- Completion of 5-session Long Workshop on Soft Skills at BUET ROSTRUM Season 3

- Participation in Programming Contest at Intra AUST Programming Contest Fall 2017

EXTRA-CURRICULAR ACTIVITIES

- Volunteer, Mozilla
 - Contributor at Pontoon
 - Contributor at Common Voice
 - Attended Mozilla Localization Dhaka Meetup 2019
- Student Member at IEEE *Jan 2019 - Jun 2020*
- Volunteer at IEEE AUST Student Branch *Jan 2019 - Jun 2020*
- Campus Ambassador at BUET Career Club *Nov 2018 - Jun 2020*
- General Member at AUST Innovation and Design Club *Mar 2018 - December, 2020*

ONLINE CERTIFICATIONS

- Peer Reviewer at ACM Transactions on Intelligent Systems and Technology
- Peer Reviewer at Artificial Intelligence (Springer Nature)
- Peer Reviewer at multiple IEEE conferences, including the 4th & 5th ICECET, 1st & 2nd ICECER, and the 1st ACDSA.
- (DeepLearning.AI) Neural Networks and Deep Learning
- (Coursera) Understanding Deepfakes with Keras
- (Coursera) Neural Style Transfer with TensorFlow
- (DeepLearning.AI) Natural Language Processing in TensorFlow
- (Coursera) Deep Learning with PyTorch : Image Segmentation

REFERENCE

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