Md. Zarif Ul Alam

CS Undergrad

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Education

Bangladesh University of Engineering and Technology (BUET) *Dhaka, Bangladesh*
B.Sc. in Computer Science and Engineering *April 2018 - Present*

- Currently in 3rd Year
- CGPA : 3.87/4

Skills

Programming Languages	C++ , Python , Java , C# , Go
Frameworks	TensorFlow , Keras , PyTorch , Django , JavaFx
Database	Oracle
Tools	Git , Bash , Docker

Work Experience

ICT Cell, BUET *Part-time*
Software Developer *Dec. 2021 - Present*

- Creating a custom software to make advance payment for the office of Directorate of Advisory, Extension and Research Services (DAERS)

Unilever *Part-time*
BizLearner (Machine Learning), Unilever Forecast Engine *Nov. 2021 - Dec. 2021*

- Worked with a team that developed a new sales forecasting model for Unilever Bangladesh

Experience

Kaggle *zarif98sjs* ⧉
Competition Medalist *Dec. 2020 - Present*

- Working on real life ML and DL problems, by collaborating with people all over the world
- **Silver Medalist**, *G2Net Gravitational Wave Detection* : Worked on finding Gravitational Wave signals from the mergers of Binary Black Holes
- **Top 12 %**, *Shopee - Price Match Guarantee* : Applied machine learning to build a model that predicts which items are the same products
- **Top 12 %**, *Rock, Paper, Scissors* : Used Reinforcement Learning to create an AI for the famous Rock, Paper, Scissors game
- **Top 14 %**, *Cassava Leaf Disease Classification* : Classified Cassava Leaf Disease, which helps farmers to quickly identify diseased plants, potentially saving their crops before they inflict irreparable damage

Upwork
Freelance Machine Learning Developer *Sep. 2021 - Present*

- Working as a freelance Machine Learning Developer, solving problems for clients

Projects

MooBot ⧉
Python , Discord API ,Graph API *April. 2021*

- Created a notification system for Moodle. Moodle doesn't come with built-in notification system. So I created one, synced with a discord bot. This helped my fellow university students to get quick notification from Moodle

innOcity ⬈

WEB DEVELOPMENT , DATABASE , DJANGO , ORACLE   *Dec. 2020*

- Created a hotel booking platform using Oracle database and Django framework

T-Rex On Mars ⬈

UNITY GAME ENGINE   *Aug. 2020*

- Recreated the old classic game T-Rex from scratch using Unity

Route de Dhaka ⬈

OPENSTREETMAP , KEYHOLE MARKUP LANGUAGE , PYTHON   *Nov. 2019*

- Implemented custom modified Dijkstra algorithm to solve a transportation problem in Dhaka . Datasets contained detailed roads, metro-routes and bus-routes of Dhaka city

KichuPariNa ChatBot ⬈

MICROSOFT AZURE , OPENCV , PYTHON   *Jan. 2019*

- Used Face API from Microsoft Azure to detect the mood of the user from the captured photos
- Used YouTube API to suggest songs based on the mood detected from the aforementioned point

Durbeen : The Dawn of Programming ⬈

JAVAFX , JAVA   *Jan. 2019*

- Created a Learning Tool for Programming in my mother language Bangla for Kids

Game of Pawns ⬈

OPENGL , IGRAPHICS , C++   *Aug. 2018*

- Implemented multiplayer , single player and blitz mode using iGraphics Library and a custom mini chess algorithm for the single player mode

Research Experience

Artificially Intelligent and Interactive MOOCs

SUPERVISOR : DR. ANINDYA IQBAL(BUET), DR. SHUBHRA KANTI KARMAKER(AUBURN UNIVERSITY)   *April 2021 - Present*

- We aim to make MOOCs efficient and interactive by making a dynamic real-time Q&A system

Application and Interpretation of Ensemble Methods for Darknet Traffic Classification

SUPERVISOR : MD. TOUFIKUZZAMAN(BUET)   *Dec. 2020*

- We successfully applied ensemble machine learning methods on the recently published CIC-Darknet2020 dataset to distinguish Darknet traffic apart from the Benign ones (with 98% accuracy) and further identify the type of application running beneath the Darknet traffic(with 97% accuracy)
- Besides, we adopted a game-theoretic approach to show the impact of the features and interpret the output of the machine learning models to better understand the behavior of the Darknet traffic.

Honors & Awards

2021	**Silver Medal**, G2Net Gravitational Wave Detection	*Kaggle*
2019	**Rated 1900+**, CodeChef	*CodeChef*
2019	**Finalist**, CodeSamurai	*Dhaka University*
2019	**First Runners Up**, Hackathon on Cloud Computing	*BUET CSE Festival*