

Kaiser Hamid Rabbi

 github.com/ZerOne288 |  [linkedin.com/in/kaiserhamidrabbil/](https://www.linkedin.com/in/kaiserhamidrabbil/) |  hamid.zerone@gmail.com

WORK EXPERIENCE

SOFTWARE ENGINEER - TIGERIT BANGLADESH LTD | Banani, Dhaka | October 2019 – Present

- Due to COVID-19, our organization had to develop Masked Face detection and recognition features in existing Facial Recognition System. Implemented MTCNN for face detection, and alignment and INSIGHTFACE model for the face recognition. Learned Multiprocessing and Threading in PYTHON for parallel workflow of CPU bound tasks and I/O bound tasks and applied that into the FRS pipeline and improved the execution time up-to 12x time faster in 4.2 million National ID Card image data cluster, with collaboration of National Crime Records Bureau and National Election Commission.
- Implemented Facebook's MSG3D PYTORCH model and MMSkeleton for Action Recognition System using PYTHON. Trained model from scratch for our own customized action video data set. Learned CUDA programming on the fly and implemented that in this project for optimization and able to improve the training time up-to 4x time faster by running them on 4 parallel GPU's. Got 40% accuracy on recognizing actions from 400 action classes. This project is in progress!
- Debugged existing Vehicle Number Plate Recognition System, annotated the number plate for the Detection System and Tested the recognition system with pretrained model. Worked with Education Board academic data (70 millions and every year additional 2.5 millions) to find out frauds collaborated with National Election Commission and Government Law Enforcement agencies.

DATA SCIENTIST - UPSKILLABLE Inc. | Gulshan, Dhaka | July 2019 - September 2019

- Designed 2 separate Recommendation System to recommend relevant jobs to the relevant candidates and vice-versa using Auto-Encoder & Boltzman Machine in Python and Flask and it helped them to find out right job for the best suited candidate. Also responsible generating valuable insights from candidates and organization data and their behavioral activities over time using SQL & PYTHON.

SOFTWARE ENGINEER - DREAMERZ LAB | Lalmatia, Dhaka | January 2019 - June 2019

- Created 2 games in Unity, one is Multiplayer First Person Shooting game named "Battle of Hatirjhil" and another one is an Augmented Reality game named "Demon Slayer". Experimented different AI algorithms in the game-play to make the game fun! Also worked on a Augmented reality application named "Attire LabAR" based on cloth fitting instead of using Trail room in the shopping mall.

EDUCATION

OTTO-VON GUERICKE UNIVERSITY

MASTER OF SCIENCE | DATA AND KNOWLEDGE ENGINEERING

Dropped out February 2018 | Magdeburg, Germany

Major: Computer Science

Extensive Elective Coursework in:

- Machine Learning, Data Mining, Big Data Storage and Processing, Recommendation System, Information Retrieval, Distributed Database Management, and Advanced Database Model.

AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

BACHELOR OF SCIENCE | COMPUTER SCIENCE AND ENGINEERING

Graduated October 2014 | Dhaka, Bangladesh

Major: Computer Science | **CGPA: 3.264**

Successfully completed Coursework in:

- Data Structure, Algorithms, Numerical Methods, Artificial Intelligence, Data Communication, Computer Graphics, Pattern Recognition, Discrete Mathematics, and Object-Oriented Programming.

FUN FACTS

ONLINE INSTRUCTOR - UDEMY & PACKT PUBLICATION LTD. | February 2018 - December 2018

- Authored 4 online premium courses in Machine Learning, Deep Learning & Artificial Intelligence.

MEGA RACER at **TOUCH TYPING** with average typing speed **85 WPM** and Ranked **Top 10%** percentile.