# Mustahid Ahmed

Last updated: September 20, 2021

Online Version

 [https://ahmedmustahid.github.io/html-cv](https://ahmedmustahid.github.io/html-cv)

**Residence**
Tokyo, Japan

**Nationality**
Bangladesh

**Git Profile**
[https://github.com/ahmedmustahid](https://github.com/ahmedmustahid)

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Python | ++++ | C++17 | ++++ | C | ++++ | Dart/Flutter | ++++ | Swift | +++ | Azure | +++ |
| AWS | ++++ | Statistics | ++++ | Image Processing | ++++ | NLP | +++ | Algorithms | ++++ | Data Structure | ++++ |

## Professional Experience

### HyperCube Ltd.

**Machine Learning Engineer**

April 2020 - Present

### Self employed

**Software Engineer**

April 2020 - Present

## Projects

### NLP based Chatbot, HyperCube Ltd.

June 2021 - Present

```
 Model deployment, system design and maintenance using AWS Amplify, AWS Api Gateway, AWS
Lambda, AWS Sagemaker.
 Front and backend development using Flutter/Dart/Swift programming languages.
```

`AWS` `Dart/flutter` `Swift` `Docker` `Git`

### Database design and deployment, HyperCube Ltd.

March 2021 – May 2021

```
 Designed MySQL database schema and deployed it in Azure.
 Using web application API to connect web app with the database.
```

`MySQL` `Azure` `Python` `Git`

### Supply Chain Optimization, HyperCube Ltd.

December 2020 - February 2021

```
 Research on optimization problems.
 Using linear programming and integer programming methodologies in Gurobi Python and C++ for
supply chain optimization.
```

`Python` `C++` `Git`

## Video Anomaly Detection, HyperCube Ltd.

May 2020 - November 2020

```
Research on deep learning based activity detection algorithms.
Constructing and deploying algorithm to detect anomalous events in video.
Transferring the analysis data to Azure DB deployed in cloud.
```

`Python` `OpenCV` `PyTorch` `MySQL` `Azure` `Docker` `Git`

## Memorize: A game for training memory, Self employed

June 2021 - Present

```
Designing front end and game logic in Swift programming language.
```

`Swift` `Git`

# Academic Qualifications

Tohoku University Sendai, Japan
MSc. Elementary Particle Physics [2018 - 2020]

Tohoku University Sendai, Japan
BSc. Physics [2014 - 2018]

Tokyo University of Foreign Studies Tokyo, Japan
Associate Degree, Japanese Language [2013 - 2014]

# Research/Talks

### Masters Thesis: Machine Learning, Deep Learning, Data Analysis

```
Simulation of particle collisions and their reaction in particle detectors using C++.
Desiging particle detectors using C++ framework.
Analyzing data read by particle detectors using machine learning and deep learning
algorithms.
```

`Python` `OpenCV` `PyTorch` `C++` `Git` `CMake`

### Conference Presentation: Japan Physical Society Annual Meeting

```
Full Detector Simulation of Pair Monitor and Application of Machine Learning to Determine
Determine Beam Size
Nagoya University, Nagoya, Japan [March '20]
```

### Conference Presentation: International Workshop on Future Linear Colliders

```
Search for weakly interacting dark matter in the International Linear Collider
University of Texas, Arlington, Texas, USA. [Oct '18]
```

## Language Skills

```
English, Business Level, TOEFL iBT 110
Japanese: Business Level
Bengali: Native Level
```

## MOOCs

- [Deep Learning Specialization](): Coursera, Stanford Online
- [Algorithm Specialization](): Coursera, Stanford Online
- [GAN Specialization](): Coursera, Stanford Online
- [NLP Specialization](): Coursera, Stanford Online

Categories: `Python` `C++` `Algorithms` `Deep Learning`