

# Mustahid Ahmed

Last updated: September 20, 2021

Online Version

<https://ahmedmustahid.github.io/html-cv>

## Residence

Tokyo, Japan

## Nationality

Bangladesh

## Git Profile

<https://github.com/ahmedmustahid>

## Email

[amustahid25@gmail.com](mailto:amustahid25@gmail.com)

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

## 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](#)