

Skills

Languages:

- **Proficient:** C/C++, Python
- **Worked with:** Java, HTML.

Technologies:

- Keras, Tensorflow, Pytorch, MySql, Django, Android, Node js, Angular 6, Git, AWS.

Employment

Software Engineer

Crowd Realty, Japan

Nov. 2019 - Present

- Design and development of API using **Python**, **Django** and Node js.
- Design and development of P2P platform infrastructure.
- Design and development of business system specialized in financial services.
- Fintech data analysis using different kinds of statistical or deep learning based algorithms.

Software Engineer

BJIT, Japan

Nov. 2018 - Oct. 2019

- **Carry Park Service (Jun. 2019 - Oct. 2019):** Developed bluetooth service for Android to BLE devices connection.
- **AI Chatbot (Apr. 2019 - Oct. 2019):** Built a chatbot using Keras library. Sentiment analysis on Japanese text. Responsible for design and development of rest API using **Django** and **Angular 6**.
- Object tracking in video using person re-identification approach using **python**.

Software Engineer Intern

AnyConnect IoT

Apr. 2018 - Oct. 2018

- Worked on a project for object detection, face recognition in video using Python, C++, OpenCV and Tensorflow in IoT devices.
- Worked on an application which downloads MPEG-DASH video into openCV mat format.

Teaching Assistant

Jahangirnagar University

Sept. 2017 - Mar. 2018

- Trained and supervised students in algorithm and data structure.

Education

Savar, Dhaka

Jahangirnagar University

Jan. 2013 - Jun. 2018

- B.Sc. in Computer Science and Engineering, Jun. 2018. **CGPA: 3.70 out of 4.**

Achievements

Programming Contest Experience

- Placed **1st** out of 41 teams in Jahangirnagar University(Bangladesh) Inter Dept. Programming Contest 2017 .
- Placed **3rd** out of 150 teams in National (Bangladesh) Collegiate Programing Contest 2017 (Bangladesh).
- Placed **3rd** out of 117 teams in IUT (Bangladesh) 9th ICT FEST 2017.
- Placed **4th** out of 102 participants in NSU (Bangladesh) Inter University Programming Contest Spring 2017.
- Placed **5th** out of 106 teams in Bangladesh University of Engineering and Technology CSE Day 2016.
- Placed **12th** out of 123 teams in ACM-ICPC Asia Dhaka(Bangladesh) Regional Contest 2016.

Online Problem Solving

- **Codeforces** - max rating 2021 (among 1%), Username: mahbubcseju.
- **Codechef** - max rating 2309 (among 1%), Username: mahbubcseju.
- **Hackerrank** - max rating 2345 (among 1%),13 gold medal, 11 silver medal, 6 broze medal, Username: mahbubcseju.
- Placed **50th** in **Google Kickstart 2017 - Round F** out of **1722** participants.

Personal Projects. <https://github.com/mahbubcseju/>

- Built a deep learning based model for predicting clinical events using recurrent neural network.
- Plant disease detection for two different datasets (rice, mango) using SVM, Bayesian and deep learning based classifiers (VGG16, Mobilenet, Inception3, Rasnet, Densenet).
- Image classification for about 10 different datasets using deep learning based classifiers (VGG16, Mobilenet, Inception3, Rasnet, Densenet) and transfer learning.
- Text classification using CNN and character level CNN approach.
- Object detection using Tensorflow object detection API.
- Football tracking on real time video using deep learning.
- Image editing tool for stitching two or more images using MATLAB.
- MPEG-DASH video downloader to download MPEG-DASH video into OpenCV mat format using C++, **Python**.
- Side channel attack on elliptic-curve cryptography for BLS curve using **C, C++, Python**.
- Developed a web platform for food delivery service of using **Python, Django, HTML, CSS, Javascript**.

Certifications

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- **Title:** Neural Networks and Deep Learning, **Issuing Organization:** Coursera, **Credential:** 6EWNLF6MAFJW
 - **Title:** Artificial Intelligence A-Z™: Learn How To Build An AI !, **Issuing Organization:** Udemy, **Credential:** UC-HIFTT79A
 - **Title:** Deep Learning and NLP A-Z™: How to create a ChatBot !, **Issuing Organization:** Udemy, **Credential:** UC-9UWVFG2S
 - **Title:** Deep Learning, Transfer Learning and Turtles, **Issuing Organization:** Udemy, **Credential:** UC-SKLLIA0K
 - **Title:** Internet Of Things- From Beginner To Making You First Device, **Issuing Organization:** Udemy, **Credential:** UC-GPI5ZE8S

Additional Experience and Awards

- **Researcher (Jul. 2018 - Aug. 2018):** Participated in a short research on elective curve cryptography in **Okayama University, Japan**.
- **Certification (Oct. 2018):** Placed **2nd** in Information Technology Professionals Exam (**ITEE FE October 2018**) from Bangladesh.
- **Campus Ambassador, GeeksforGeeks (Aug. 2018 - Oct. 2018):** Responsible for conducting workshops, seminars in Jahangirnagar University
- **Problem Setter (2017 – 2018):** Bangladesh National Girls Collegiate Programming Contest, Jahangirnagar University Intra University Programming Contest and some other national online contests.
- **Programming Camp (2016):** Placed **3rd** in National (Bangladesh) Programming Camp 2016.
- **Leadership Experience (2017-2018):** Manager of Jahangirnagar University programming club.