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Education

Savar, Dhaka **Jahangirnagar University** **Jan. 2013 - Jun. 2018**
- B.Sc. in Computer Science and Engineering, Jun. 2018. **CGPA: 3.70 out of 4**.

Experiences

Software Engineer **Crowd Realty, Japan** **Nov. 2019 - Present**
- Design and development of REST API using Django, 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.

Teaching Assistant **Jahangirnagar University** **Sept. 2017 - Mar. 2018**
- Trained and supervised students in algorithm and data structure.

Achievements

Programming Contest Experience
- 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

- 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, Mobilent, Inception3, Rasnet, Densenet).
- Image classification for about 10 different datasets using deep learning based classifiers (VGG16, Mobilent, 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 an attendance system based on face recognition using **Python, Django , Javascript, Mysql, HTML, CSS,**.

Certifications

- **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.

Skills

Languages:
- **Proficient:** C/C++, Python.
- **Worked with:** Java, Javascript, Node js, React Js, Angular js, Python.

Technologies:
- Keras, Tensorflow, Pytorch, MySql, Django, Android, Angular 6, Git.