

# ARAFAT HASAN

## Continuous Learner · Outsider Observer

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## SUMMARY

A curious, enthusiastic continuous learner and an utter computer nerd, an open-source advocate who loves Vim and Linux. Innately devise a better and perfect problem-solving method for challenging tasks. Read books and love to. Interested in philosophy, history, politics, literature, technology, and psychology. Think of me as a stoic observer of the universe.

## EXPERIENCE

### Software Engineer, Intern (Remote)

#### MATs Inc.

August 2018 – September 2018

United States

- Worked in a local team consisting of four members.
- Used Maven, Java, Selenium WebDriver, Python Scrapy.
- Have tested many websites and crawled a substantial amount of data.
- Have learned Jenkins and gathered a lot of real life work experiences.

## PROBLEM SOLVING

- Solved more than 1500 online problems in various online judges like Uva, LightOJ, Codeforces, Codechef, SPOJ, HackerRank, Leetcode etc.
- Participated in BACS KUET Programming Training Camp 2017.
- Participated in about 300 online programming contest, more than 15 onsite/online intra-university programming contest, about 5 onsite/online national inter-university programming contest around the country.

## PROJECTS

### UVa Tool

<https://github.com/arafat-hasan/uva-tool>

C++

cURL

Command Line Based Tool for Uva onlinejudge with features of submitting and uHunting. Uva-tool logs in and out to the site, submits problems to the judge queue and hunts for problems.

### Bangdatetime

<https://github.com/arafat-hasan/bangdatetime>

Python

PyPi

Python package for Bengali calendar (i.e Bangabdo).

### Facebook Manager

<https://github.com/arafat-hasan/FacebookManager>

Java

Selenium WebDriver

Maven

A fancy project which builds an excel file containing a list of all Facebook friends of the user. The program can:

- Login to Facebook using username and password and save cookies to a file.
- Go to friend list page of the user and scroll down until all profiles loaded.
- Scrap all profiles name, id etc. which are available.
- Save Scraped data to an excel file.
- Navigate every profile using data from the excel file.

## LIFE PHILOSOPHY

*"If you don't have any shadows, you're not standing in the light."*

## PERSONALITY TRAIT

### INTP-A (Assertive Logician)

[www.16personalities.com/profiles/40c18fa14381f](http://www.16personalities.com/profiles/40c18fa14381f)

Enjoy taking an unconventional approach to many aspects of life.

## MOST PROUD OF



### Avid Reader

Loves buying, reading and smelling books. A good book is an event in my life. I do not have a favorite book, I have hundreds.



### Problem Solver

Loves programming and solving interesting mathematical and algorithmic problems.



### Open Source Enthusiast

Uses and loves to contribute in open sources. A Linux lover who believes in the power of open source.



### Continuous Learner

Never stopped learning to confirm a reality I know is there, but which I have not experienced.

## EDUCATION

### B.Sc. in Computer Science and Engineering

**Mawlana Bhashani Science and Technology University**

Jan '15 – June '20

Bangladesh

### Higher Secondary School Certificate Program

**Carmichael College**

June '15

Rangpur, Bangladesh

### Secondary School Certificate Program

**Rangpur Zilla School**

June '13

Rangpur, Bangladesh

## Dictionary Builder

<https://github.com/arafat-hasan/build-dictionary-of-given-word-list>

Python LaTeX PyLaTeX

This program makes a dictionary of English language in a printable format of supplied words using (unofficial) Google Dictionary API. LaTeX has been used to prepare the dictionary and PyLaTeX has been used to prepare that huge LaTeX file.

## Dhaka-AI

<https://github.com/arafat-hasan/dhaka-ai>

Python Tensorflow YOLOv5

My solution of Dhaka Ai Traffic Detection Challenge, an international AI-based Dhaka Traffic Detection Challenge funded by Elsevier.

## SKILLS & TECHNOLOGIES

C/C++ Python Java SQL LaTeX Vim Script

System Administration Linux Bash Vim Git

Selenium WebDriver Maven Python Scrapy Microsoft Excel

## CO-CURRICULAR ACTIVITIES

### Competitive Programming Trainer

#### Competitive Programming Club, CSE, MBSTU

March 2019 – Ongoing Tangail, Bangladesh

- Conducted regular classes regarding Competitive Programming
- Trained students about ACM ICPC and other Programming Competitions
- Organized and conducted special workshops for students
- Monitored student performances and provided necessary feedbacks

### Various Volunteering Activities

#### Dept. of CSE, MBSTU

2016– Ongoing Tangail, Bangladesh

- Have managed the department's own server (HP ProLiant ML350), operated it as a print server and a webserver to run an attendance management system. It's still up and running.
- Processed data and generated information of about 1200 students and teachers using Excel for a study run by Institutional Quality Assurance Cell.

### Organizing Programming Contests

#### Dept. of CSE, MBSTU

Various Events Tangail, Bangladesh

- We have organized numerous contest including 1st MBSTU CSE Carnival'17.
- We have worked even till dawn to organize these events and we all enjoyed that.

## PUBLICATIONS

### Journal Paper

#### Intelligent waste management system using deep learning with IoT

September 2020 Journal of King Saud University

Reflects a capable architecture of the waste management system based on deep learning and IoT. The proposed model renders an astute way to sort digestible and indigestible waste using a convolutional neural network.

<https://doi.org/10.1016/j.jksuci.2020.08.016>

## SOFT SKILLS

Structured & Critical Thinking Perfectionism  
Persuasive Troubleshooting Attentive Listening

## LANGUAGES

Bengali  
English



## PROFILES

**LinkedIn**  
/in/arafat-hasan

**StackOverflow**  
/users/7829174/arafat-hasan 1.2k+ Rep

**Github**  
/arafat-hasan 20+ Projects

**Codeforces**  
/profile/arafat\_hasan 1434 Max

**uHunt**  
/id/859424 (arafat\_hasan) 350+ Solve

**LeetCode**  
/arafat\_hasan

**Skype**  
live:arafathasanjenin

**Twitter**  
/Arafat\_HJ

**Facebook**  
/arafathasanjenin

## REFEREES

### Prof. Dr. Mohammad Motiur Rahman

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