

# TAKRIM RAHMAN ALBI

## Software Engineer | Data Scientist

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🌐 takrim-rahman-albi.github.io/ 📄 takrim-rahman-albi 🔄 Alvi-Rahman

#Python #Software Engineering #System Design #Distributed Systems



## EDUCATION

BSc. in Computer Science and Engineering

BRAC UNIVERSITY

📅 2016 – 2020 📍 Dhaka, Bangladesh

CGPA - 3.54 out of 4

## EXPERIENCE

Software Engineer (Lead)

PRMAX

📅 July 2022 – Ongoing 📍 London, United Kingdom

Significant Contribution:

- Lead Engineering team, Design Sprint and maintain Agile SDLC.
- Analyze requirements (BRD, SRS, API doc), design and deploy services as per requirements.
- Cron and Daemonize for automation, reporting and monitoring.
- Redesign monolithic system to a containerized microservice architecture (upgrade from python 2.7 to python 3.9).

Software Engineer

UPAY (UCB Fintech Company Ltd)

📅 December 2021 – April 2022 📍 Dhaka, Bangladesh

Significant Contribution:

- Reduced transaction time from 1s to 300ms by implementing pub-sub model using NATS (nats-py).
- Optimized APIs and DB queries (ORM) using DB caching and distributed caching.
- Implemented several APIs and services using Django and DRF while integrating them in a containerized Microservice System.

Software Engineer

Go Zayaan Limited

📅 March 2020 – December 2021 📍 Dhaka, Bangladesh

Significant Contribution:

- Developed Backend system using Django and DRF while using Elastic Search to fasten the API responses to 700ms.
- Developed asynchronous APIs using distributed MQ (Celery)
- Designed and integrated different payment gateways.

Mentor | CQA

DeepLearning.AI

📅 August 2021 – July 2022 📍 Remote

Significant Contribution:

- Support students and suggest solutions.
- Review code and raise GitHub issues

## PROFILE

I am interested in large-scale software and have certain expertise in Building highly secured, scalable, and consistent modern distributed systems. Working primarily on back-end technologies, I am disposed to provide something state-of-the-art not only to the science community but also to the business domain through my leadership and diligence.

## EXTRA-CURRICULAR

- Member at Youth-Mock Parliament (2016)
- Design For Change (BRAC University RS Activity)
- Mentor AI and ML workshops at *Omdena*.

## SKILLS

### Software and System Engineering

- Design, Lead and Deliver Agile SDLC
- Design Microservices, Monolithic, Distributed and Decentralized Systems, SDKs.
- Usage of Load Balancing, Elastic Search, MQ, Hashing, Pub-Sub model, Task Scheduling, Signal, Transaction and Caching
- Implementing Payment Gateways, Financial Systems and Transaction Validation.
- Token Based authentication, authorization, permission and social app management
- Django, DRF, Flask, FastAPI, React
- Database Design, Optimization with ORM, RDBMS and No-SQL (MongoDB, Firebase)
- Git, Docker, Kubernetes, GCP, AWS
- Expertise In Complex Data Structure and Algorithms

### Data Science

Expert in:

- ML and DL algorithms from scratch
- Data Pre-processing, creating Data and Model Pipelines, EDA, Graph Analytics
- Specialized in Deep Learning Frameworks such as Tensorflow, Keras, PyTorch, Trax
- Scikit-learn, Numpy, Pandas, Matplotlib, Seaborn, NetworkX, OpenCV, Pillow, SpaCy, NLTK, Nilearn, Hadoop and Spark




## PROJECTS

### Development Projects :

#### PRmax System

 [PRmax Landing page](#)

#### Upay Backend

 [Upay Web](#)  [Upay Android](#)  [Upay IOS](#)

#### Go Zayaan Backend

 [Go Zayaan Web](#)  [Go Zayaan Android](#)

#### Zoo of Karnataka

 [Zoo Authority of Karnataka](#)

#### All Social Media Under One Platform

 [Admin App](#)  [Agent App](#)

#### Tech Review Site

 [GSM Riders](#)

### Data Science and AI Projects :

#### Deep Learning Projects (DeepLearning.ai)

 [Alvi-Rahman/Deep-Learning-Coursera—deeplearning.ai](#)

#### GAN Projects

 [Alvi-Rahman/GAN-Specialization](#)

#### Natural Language Processing (Coursera)

 [Alvi-Rahman/Natural-Language-Processing-Specialization](#)

#### Stanford Machine Learning (Coursera)

 [Alvi-Rahman/Coursera-Machine-Learning-Andrew-Ng](#)

#### Tensorflow in Practice (Coursera)

 [Alvi-Rahman/Tensorflow\\_in\\_practice\\_Coursera](#)

### Some Solutions for Online Judge Problems :

 [Alvi-Rahman/LeetCode\\_Solve](#)

 [Alvi-Rahman/Programming\\_Contest\\_Problem\\_Solve](#)

## PUBLICATIONS

- Honorable Mention Award in ACM CSCW 2020: *Learning from Tweets: Opportunities and Challenges to Inform Policy Making During Dengue Epidemic*. Proc. ACM Hum.-Comput. Interact. 4, CSCW1, Article 065 (May 2020)  
DOI: <https://doi.org/10.1145/3392875>

## ACHIEVEMENTS



1st Runners UP (MUJIB BORSHO IT  
CARNIVAL 2020- DIU)  
[View Certificate](#)

## CERTIFICATIONS



Deep Learning Specialization  
[View Certificate](#)



Generative Adversarial Networks  
(GANs) Specialization  
[View Certificate](#)



BIG DATA Specialization  
[View Certificate](#)



Self-Driving Car Specialization  
[View Certificate](#)



TensorFlow Developer  
[View Certificate](#)



AI for Medicine Specialization  
[View Certificate](#)



Stanford Machine Learning Coursera  
[View Certificate](#)



Natural Language Processing Special-  
ization  
[View Certificate](#)



AI For Everyone  
[View Certificate](#)



AWS Fundamentals: Going Cloud-  
Native  
[View Certificate](#)



BIRDS Workshop  
[View Certificate](#)

## REFERENCES

Prof. Sriram Chellappan, Ph.D

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