

TAKRIM RAHMAN ALBI

Software Engineer | Data Scientist

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

#Python #Django #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

Freelance

📅 March 2022 – Ongoing 📍 London, United Kingdom

Significant Contribution:

- Provide engineering solutions to organizations across the globe
- Consult best engineering practices and make systems as per requirements.

Software Engineer

UPAY (UCB Fintech Company Ltd)

📅 December 2021 – February 2022 📍 Dhaka, Bangladesh

Significant Contribution:

- Implemented several APIs and services using Django and DRF while integrating them in a containerized Microservice System
- Optimized APIs and DB queries (ORM) so that the core system can handle over 100M requests/day (Asynchronous)
- Implemented pub-sub model using NATS (nats-py)

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 (able to handle 10M+ requests/day)
- Asynchronous Flight APIs that can handle over 1K requests/sec
- Implemented, designed and integrated different payment gateways

Mentor | CQA

DeepLearning.AI

📅 August 2021 – Ongoing 📍 Remote, United States

Significant Contribution:

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

PROFILE

I have just moved to the UK and have certain expertise in Building highly secured, scalable, and consistent modern distributed software 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 work 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 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
- Design and implement RESTful and SOAP APIs, RPC with Serialization
- Django, DRF, Flask, FastAPI, React
- Database Design, Optimization with ORM, RDBMS and No-SQL (MongoDB, Firebase)
- DevOps, Git Expert, CI/CD and Deploy
- 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 :

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

Python Data Science (Scikit-Learn and ML)

 Alvi-Rahman/Python_Data_Science_and_Machine_Learning

Some Solutions for Online Judge Problems :

 Alvi-Rahman/Programming_Contest_Problem_Solve

 Alvi-Rahman/LeetCode_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

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