

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

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 2021 – December 2021 📍 Dhaka, Bangladesh

Significant Contribution:

- Developed Backend system using Django while using Elastic Search to fasten the responses (able to handle 10M+ requests/day)
- Asynchronous Flight APIs that can handle over 1K requests/sec
- Implemented and designed different payment gateways

Mentor | CQA

DeepLearning.AI

📅 August 2021 – Ongoing 📍 Remote, United States

Significant Contribution:

- Support students, suggest solutions and raise GitHub issues

Software Engineer

Codeware Limited

📅 August 2020 – March 2021 📍 Dhaka, Bangladesh

Significant Contribution:

- Create APIs Using DRF + MongoDB and usage of Graph API

PROJECTS

Development Projects :

Upay Backend

🌐 Upay Web 📱 Upay Android 🍏 Upay iOS

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

Go Zayaan Backend

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

All Social Media Under One Platform

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

Tech Review Site

 [GSM Riders](#)

Data Science and AI Projects :

Paraphrase Tool Using Neural Machine Translation

 [Alvi-Rahman/Paraphrase-Tool-NMT](#)

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 Other Mentionable Projects :

CAT-Chain : A Blockchain Based Categorical Information Transaction And Depository Framework

 [Alvi-Rahman/CAT-Chain](#)

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 Specialization

[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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Prof. A. B. M. Alim Al Islam, PhD

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