TAKRIM RAHMAN ALBI

Software Engineer | Data Scientist

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🌐 takrim-rahman-albi.github.io/ in 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 – April 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 am interested in large-scale software and have certain expertise in Building highly secured, scalable, and consistent modern distributed systems. Working primarily on backend 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 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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