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

System Engineer (Model Backend Lead)
Talbot Underwriting Limited

- December 2022 – Ongoing
- London, United Kingdom

Significant Contribution:
- Optimized and standardized system for enhanced performance.
- Analyze, Design and Build Technical Specs and Risk Models.
- Reduced sprint lags by automating func. to tech. specs creation

Software Engineer (Lead)
PRmax Limited

- June 2022 – December 2022
- 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.

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.

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 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

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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

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Stanford Machine Learning (Coursera)
○ Alvi-Rahman/Coursera-Machine-Learning-Andrew-Ng

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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

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🏆 **Generative Adversarial Networks (GANs) Specialization**
View Certificate

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🏆 **BIG DATA Specialization**
View Certificate

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🏆 **Self-Driving Car Specialization**
View Certificate

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🏆 **TensorFlow Developer**
View Certificate

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🏆 **AI for Medicine Specialization**
View Certificate

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🏆 **Stanford Machine Learning Coursera**
View Certificate

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🏆 **Natural Language Processing Specialization**
View Certificate

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🏆 **AI For Everyone**
View Certificate

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🏆 **AWS Fundamentals: Going Cloud-Native**
View Certificate

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🏆 **BIRDS Workshop**
View Certificate

REFERENCES

Prof. Sriram Chellappan, Ph.D
@ University of South Florida
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Prof. A. B. M. Alim Al Islam, PhD
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