TAKRIM RAHMAN ALBI

Software Engineer | Data Scientist

📍 Flat 702, 4 Barking Wharf Square, IG11 7DQ, United Kingdom
@ takrim.rahman.albi@gmail.com 📞 +44 7555 039353
🌐 takrim-rahman-albi.github.io/ in 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 (Backend Lead)
Hexaware Technologies (UK Office)

📅 December 2022 – Ongoing 📍 London, United Kingdom

Significant Contribution:
- Optimize existing system through asynchronous logging.
- Analyze, Design and Build Technical Specs and Design Sprint.
- Lead and design underwritting models for **Talbot Underwritings**

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

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 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
@ University of South Florida
✉ sriramc@usf.edu
🌐 csee.usf.edu/~sriramc/

Prof. A. B. M. Alim Al Islam, PhD
@ Bangladesh University of Engineering and Technology
✉ alim_razi@cse.buet.ac.bd
🌐 sites.google.com/site/abmalimalislam/