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

Software Engineer (Model Development Lead)
Hexaware Technologies Limited (UK Office)

📅 May 2022 – Ongoing   📍 London, United Kingdom

Significant Contribution:

- Lead a team of 6 to build, design and manage highly efficient and effective software for several financial risk models at **Talbot UW**
- Lead Engineering team to build and manage systems for **PRMax**
- Collaborate with Business Analysts to develop software requirements and specifications
- Optimized system by building skeleton to reduce redundancy.
- Perform code reviews and Mentorship to ensure adherence.
- Optimized and standardized system for enhanced performance.
- Reduced sprint lags by automating Agile sub-Process

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 distributed caching.
- Implemented several APIs and services using Django and DRF while integrating them in a containerized Microservice System.
- Cron and Daemonize for automation, reporting and monitoring.
- Analyze requirements and based on that build, design systems

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, Built and integrated different payment gateways.
- Regularly debug, inspect, monitor and optimize systems for efficiency and consistency.

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 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 leadership and diligence.

SKILLS

Software and System Engineering

- Manage and Build Engineering team who are ready to build and deliver highly productive and innovative software solutions.
- Design, Lead and Deliver Agile SDLC
- Design Microservices, Monolithic, Distributed and Decentralized Systems.
- Design, Lead and Build Highly Scalable, Optimized and Secured Software Systems
- Usage of Load Balancing, Elastic Search, MQ, Cryptography, Pub-Sub, Task Scheduling, Signal, Transaction and Caching
- Implementing Payment Gateways, Financial Systems and Transaction Validation.
- Django, DRF, Flask, FastAPI, React
- Database Design, Optimization with ORM, RDBMS and No-SQL (MongoDB, Firebase)
- Git, Docker, Kubernetes, GCP, AWS, Azure
- Expertise In Complex Data Structure and Algorithms

Data Science

Expert in:
- Design AI system and Model Pipeline as per Business requirements and needs.
- Deploy AI System in production.
- Build 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.
- 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
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Prof. A. B. M. Alim Al Islam, PhD
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