

TAKRIM RAHMAN ALBI

Software Engineer | Data Scientist

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👤 Alvi-Rahman

#PYTHON #JAVASCRIPT #FULL STACK #SOFTWARE ENGINEERING #SYSTEM DESIGN #DISTRIBUTED SYSTEMS

EXPERIENCE

Backend Software Engineer

Scrub AI Limited

📅 January 2024 – Ongoing 📍 London, United Kingdom

Significant Contribution:

- Develop and introduce unit testing framework using pytest
- Migrate DB to SQLAlchemy ORM and optimize SQL queries

Software Engineer

Hexaware Technologies Limited (UK Office)

📅 May 2022 – Jan 2024 📍 London, United Kingdom

Significant Contribution:

- Designed, Implemented and Optimized NestJs backend for scalability; Orchestrated real-time Chat App with Socket.io.
- Engineered Logistics with ShipEngine UPS; Integrated Mangopay for secure transactions.
- Implemented Notification service with FCM and AWS SNS for real-time delivery.
- Pioneered efficient software systems for diverse financial risk models; Collaborated for organized and optimized Agile processes.
- Spearheaded software efficiency improvements; Provided mentorship and conducted code reviews.
- Engineered email marketing platform with multithreading; Orchestrated Dockerization and CI/CD pipelines.

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.

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.

PERSONAL 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.

SKILLS

Software and System Engineering

- Develop and oversee scalable, resilient technology solutions with high latency and throughput for diverse technology and business domains, utilizing a variety of frameworks.
- Design, Lead, and Deliver Agile SDLC
- Design Microservices, Monolithic, Distributed and Decentralized Systems.
- Architect end-to-end systems encompassing both frontend (web and mobile apps) and backend technologies.
- Usage of Load Balancing, Elastic Search, MQ, Cryptography, Pub-Sub, Task Scheduling, Signal, Transaction, Caching, Socket.io
- Implement and Integrate payment, financial and third-party systems
- Django, DRF, MERN, React, React-Native
- 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.
- 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.

EDUCATION

BSc. in Computer Science and Engineering
BRAC UNIVERSITY

2016 – 2020

Dhaka, Bangladesh

CGPA - 3.54 out of 4

PROJECTS

Development Projects :

PRmax System

PRmax Client

PRmax Research

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

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

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 Special-
ization

[View Certificate](#)



AI For Everyone

[View Certificate](#)



AWS Fundamentals: Going Cloud-
Native

[View Certificate](#)



BIRDS Workshop

[View Certificate](#)

REFERENCES

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