Mehedi Imam **Shafi**

SOFTWARE ENGINEER

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Skills

Back-end	Django, Flask, Scrapy
Front-end	ReactJS
Programming	Python, JavaScript, TypeScript, Kotlin, Java
Database	PostgreSQL, MySQL
Misc	AWS, Docker, Kubernetes, Databricks, PySpark

Work Experience

Zalando SE
Berlin, Germany

SOFTWARE ENGINEER (BACKEND)
September 2022 - present

STACK: Python, AWS, Kubernetes, Lightstep, Pyspark, Databricks

- Worked on a async microservice styled pipeline that efficiently scrapes competitors' websites to gather valuable information about their product assortments. Currently the system runs with over 150 domains. The system is optimized to run on domain specific schedule and scale as necessary.
- Maintained consumer specific data pipeline that utilizes the scraped data and own assortment to build business intelligence. These pipelines also ensure validation of scraped items and core business KPI fulfillment. The pipelines are built on AWS step functions and Databricks
- Took the initiative to design and create multiple dashboards to monitor the health of all asynchronous components with 150 domain specific services of the system. This increased the visibility of the system for day to day operation.
- Designed and implemented a automated CI/CD pipeline to deploy monitoring and alerting across different monitoring tools like lightstep, zmon, etc for the microservices with almost no human interaction required reducing 100% of humane err and required sprint point.
- Led RCA for production anomolies and implemented preventive measures for the future.
- Reduced overall system cost by optimizing storage solution for scraped raw pages while retaining the ability to debug erroneous responses in real-time operation issues.

ShopUp
Dhaka, Bangladesh

SOFTWARE ENGINEER (BACKEND)
May 2022 - August 2022

STACK: Ruby, Ruby on Rails, MySQL, Kubernetes, Docker

- Migrated the async backend from Resque to Sidekiq for better performance and more robust control over background jobs. During this multiple system bugs were found and resolved resulting in a better system and many redundant resource consuming jobs were removed
- Updated project stack to latest ruby (ruby on rails) and MySQL 8.0

Progoti Systems Ltd, SureCash
Dhaka, Bangladesh

SOFTWARE ENGINEER(FULL STACK)
December 2020 - April 2022

STACK: Python, Django, ReactJS, Docker, PostgreSQL

- Designed a scoring system module that accounts for over 200 data attributes and over 500 rules for the microcredit system, TallyCredit
- Containerized the project for easier deployment and development process using Docker and docker-compose. It contains 4 services with their dependencies. Improved deployment process to different VPS using different Linux distributions. Furthermore, it enabled multi-branch testing simultaneously.
- Implemented a public interface for users to interact with their data securely without needing to log in. Will let about 3+ million active users access and update their data without having to create just another account.
- Built an android app for collecting data directly to the system and control field officers interaction with users. Eliminated the required paperwork using excel to collect data.

CodeMarshal IT Systems Ltd
Dhaka, Bangladesh

R & D ENGINEER
February 2019 - November 2020

STACK: Python, Flask, Java, Tensorflow

- Worked on an API that uses Tesseract and Tensorflow to extract textual data from received identification cards and validate using 3rd party API. This is a part of the e-KYC system.
- Architected an API to run face verification. Initially, it was using DLIB then moved to use YOLO-v3, and finally moved to Retinaface. The final service runs on Apache MXNET model-server and the previous ones on Flask.
- Improved performance of android SDK capable of running face detection and verification real-time and offline using TFLite by over 200% by optimizing the model and vectorizing image operations. Later nid-detection was added to the SDK.

Education

B.SC IN COMPUTER SCIENCE AND ENGINEERING
Dhaka, Bangladesh

DAFFODIL INTERNATIONAL UNIVERSITY
January 2015 - December 2018