Muhammad Abdur Rehman Azeem

Islamabad | LinkedIn | +(92)3345832122 | abdurrehman.azeem81@hotmail.com

WORK EXPERIENCE

Company Scholefy (Volunteer)   **Location Islamabad**
Position Software Development Engineer   *Dates September, 2024 - Present*

- Built website end to end, utilising React, Express and Postgres. Also, Setup staging website using AWS lightsail, created a custom CD job script using bash and a test suite for the website's backend.

Company Motive(Formerly KeepTruckin)   **Location Islamabad**
Position Software Development Engineer   *Dates April, 2021 - August, 2023*

- Lead development of microservice to relay Kafka messages after processing them to Snowflake, and an endpoint for insurance partners of the company to access data relayed through the messages.
- Reduced P95 latency times for endpoints under Safety team's ownership. Achieved by identifying problematic endpoints, and further narrowing down the issue to database queries. leading to parittioning a table based on a timestamp. Switching queries from a primary key a composite key. Ultimately achieving reduction of P90 latency times to ~2-7 seconds from ~30secs-1min.
- Improved user privacy through developing Data Retention project, in which I collaborated on system design with my manager and solely developed the backend. Created numerous endpoints to allow companies to delete their data upto a certain date. This project was expanded by other teams to provide customers granular control of their data.
- Helped reduce time to generate user reports by setting up a new database (PostgreSQL) and creating a DAG job to aggregate and store data in the database. This not only helped reduce latency for users generating reports but also, helped reduce load on the main database (attached to Ruby on Rails Monolith) by providing a dedicated database for the team's DAG jobs to write the data to. The writes would previously generate huge amounts of WAL files which would lead to delays in writing data to replicas of the main DB.
- As an oncall engineer, I worked to resolve numerous customer issues such as faulty reports to incorrect data being sent in emails.
- Provided Insights to fleet managers by creating new report end-to-end, which involved setting up a DAG job as well as endpoints on RoR monolith and Golang microservice for the report.

LEADERSHIP EXPERIENCE

Company Motive   **Location Islamabad**
Position Software Development Engineer   *Dates April, 2021 - August, 2023*

- Helped with onboarding process of new team members and the oncall process.

EDUCATION

National University of Science and Technology (NUST-H12)   **Location Islamabad**
Computer Science/Bachelors   *Dates August, 2019*

- Won Best Adjudged Industry Project award for Final Year Project, Emotion Identification and Analytics on Call Center Audio.
- Learned fundamentals of Computer Science such as Data Structures, Algorithms, Databases, Networking, Computer Organization, Artificial Intelligence to name a few topics.

SKILLS & INTERESTS

Skills: Ruby, Golang, Python, Javascript, Ruby on Rails, Gin(Golang), PostgreSQL, Ruby on Rails, Docker, Django, React (moderately skilled), AWS (Basics setting up EC2 or VPS instances).

Interests: Developing scalable backends for distributed systems leveraging IoT devices for the energy, health and transport sectors.