

Adhikram Maitra

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Experience

MEDIA.NET (Directi)

October 2021 – Present

Data Application Developer — [Stack:- Scala, Java, SQL, Spark, Kafka, PySpark, Hdfs]

Remote

- Designed and implemented an efficient Bash script that orchestrates Spark submits and PySpark scripts, **dynamically fetching configuration parameters from MySQL**. This streamlined process centralizes and tracks settings used in Spark jobs, while also providing data for real-time performance monitoring, optimized scheduling and resource allocation.
- Led the innovation of DANTE(Data Anomaly Tracker), a sophisticated system blended with Json-based configuration, which offers developers effortless **real-time data validation and trend analysis**, for voluminous datasets. Through architectural finesse and data compression, It emerges as **our fastest analytical tool, ensuring precision at speed**.
- Conceptualized and built our **first inaugural data quality tool, designed to operate with diverse statistical formulas**. Enabled real-time tracking of data trend shifts and null value surges. This not only exposed anomalies in upstream data but also swiftly pinpointed internal system errors, fortifying data integrity and system reliability.
- Integrating HBase into our streaming pipeline alongside Kafka as the data source led to a **30-minute reduction in data latency**. This enables direct data flow and efficient handling and not only provided faster access to actionable insights but also established a **scalable foundation for future data growth and evolving business needs**.
- Implemented A/B testing in the Stoploss System, to **gain insights into traffic patterns** and loss threshold for individual entities. This initiative led to a remarkable **15% reduction in overall losses**, significantly contributing to the company's research and development efforts and generating tangible improvements in profitability.
- Introduced Flock Alerting Scripts in the stop loss system with PySpark for efficient debugging. These scheduled scripts provide **advanced error detection capabilities**, enabling the identification of losses. This streamlined approach enhances error resolution speed and system reliability, leading to **improved operational efficiency**.

DEVSNEST

October 2020 – October 2021

Backend Engineer — [Stack:- Ruby on Rails, Python, Redis, Amazon SQS]

Remote

- Pioneered **automation of group creation and moderation** on Discord through the main website using Amazon Simple Queue Service, **unlocking the peer-learning aspect of the product**. Resulted in **reduced management costs** for cohorts and significantly increased community engagement during the COVID era.
- Developed robust Discord notification system using the **Round Robin method**, for effectively managing and **circumventing Discord's rate limit of 5 messages per second**, resulting in **increased user interaction and retention** ensuring efficient communication with the user and promoting community engagement.
- Customized DSA Editor using Judge0 API for **real-time code execution and evaluation**. Standardized, a backend editor with **custom assertion testing** to elevate student's proficiency in Backend. **Utilized Git for version controlling of the user code**, enabling students to track and manage code changes effectively.

Education


Government College of Engineering

Cooch Behar, India

Bachelor of Technology in Computer Science & Engineering , CGPA: 8.8/10

Aug. 2017 – July 2021

Projects

Fuzzy Tutor | — [Stack:- AWS, Ruby on Rails] — [Repository ] (WIP)

January 2024

- Created an Online Exam system for Teachers to conduct Competitive Exams.
- Build the Backend from scratch on AWS, supported by a postgres database hosted on vercel db.

Bazar | — [Stack:- ReactJS, Firebase] — [View Site]

July 2021

- Developed the **User Interface of E-Commerce** with React and **firebase user authentication**.
- Added **Redux** for managing orders with **dynamically manageable cart value and payment system**.

Technical Skills

Languages — Scala, Java, Python, SQL (MySQL), Ruby, C++

Frameworks & Tools — Spark, HDFS, Ruby on Rails, Kafka, Git, Amazon Simple Queue Service

Fundamentals — Design Patterns, Object-Oriented Programming, Distributed Systems, ETL