Adhikram Maitra ⚲

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Experience

MEDIA.NET (Directi) — Remote, India

Data Application Developer 2 · Stack:- Scala, Java, SQL, Spark, Kafka, PySpark, Hdfs, Ruby — *October 2021 - Present*

- Parameter Mismatch — *Stack:- Scala, Spark, Hive*
  Scale:- Comparing between nearly 100Gb Data in 30 minutes

  * Crafted an advanced tool for ensuring data reliability. This innovative solution swiftly identifies logging discrepancies, empowering seamless data validation and fortifying the reliability of downstream datasets.

- DANTE (Data Anomaly Tracker) — *Stack:- Scala, Spark, Hive*
  Scale:- Comparing between nearly 3 Billion Rows and 200 Million Rows in 30 minutes

  * Optimized with parallel data reading that led to a 60-pct reduction in data (>100Gb) processing time, enabling developers real-time data validation and trend analysis for voluminous datasets.
  * Conceptualized our first configurable data quality tool, designed to operate with diverse statistical formulas to track data trend shifts and null value surges, which fortified data integrity for systems.

- Spark Submit Orchestrator — *Stack:- Bash, SQL*

  * Developed a process that orchestrates Spark submissions and PySpark scripts, dynamically fetching configuration from MySQL. This centralizes and tracks configurations used in Spark jobs, while providing data for real-time performance monitoring.

- StopLoss System — *Stack:- Java, Structured Streaming, Batch Processing*
  Scale:- Fetching 50k records per second from Kafka and processing it in 5 minute bucket

  * Integrated HBase with Kafka Source which led to a 30-minute reduction in data latency and efficient error handling with faster access to actionable insights, establishing scalable foundation.
  * Implemented A/B testing to gain insights into traffic patterns which led to a remarkable 15-pct reduction in overall losses, contributing to the company's research and development for profitability.

DEVSNEST — Remote, India

Backend Engineer · Stack:- Ruby on Rails, Python, Redis, Amazon SQS — *October 2020 - October 2021*

- Discord Automation and Notification System — *Stack:- Ruby on Rails, Python, Amazon SQS*
  Scale:- Sending 2k messages per day. Reaching 10k Users in 3 months

  * Pioneered automation for group moderation on Discord through website, unlocking the peer-learning aspect of the product. Resulted in reduced management costs with increased community engagement.
  * Developed robust Discord Notification System using the Round Robin method, for effectively circumventing Discord's rate limit of 5 messages per second, resulting in increased user interaction and retention.

- Customized Editors — *Stack:- Ruby, React, Judge0 API*

  * 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.

Education

Cooch Behar Government Engineering College — West Bengal, India

Bachelor of Computer Science and Engineering ; CGPA 8.8/10 — *Jun 2017 - May 2021*

Projects

Fuzzy Tutor (In Progress) | **Stack:-** *AWS ,Ruby on Rails, React.js, MySql* — January 2024 - Present
- 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.

Bazar | **Stack:-** *ReactJS, Firebase* — 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 and Tools | *Spark, HDFS, Ruby on Rails, Kafka, Git, Amazon Simple Queue Service*
Fundamentals | *Design Patterns, Object-Oriented Programming, Distributed Systems, ETL*