

Adhikram Maitra

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Experience

- MEDIA.NET (Directi) Remote, India
Data Application Developer · Stack:- Scala, Java, SQL, Spark, Kafka, PySpark, Hdfs October 2021 - Present
- DANTE (Data Anomaly Tracker) Scala, Spark, Hive
 - * 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 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 Java, Structured Streaming, Batch Processing
 - * 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.
 - * Introduced PySpark Alert Scripts for efficient debugging which provides advanced error detection capabilities, enabling enhanced error resolution speed and system reliability, leading to improved operational efficiency.

- DEVSNEST Remote, India
Backend Engineer · Stack:- Ruby on Rails, Python, Redis, Amazon SQS October 2020 - October 2021
- Discord Automation and Notification System Ruby on Rails, Python, Amazon SQS
 - * Pioneered automation for group moderation on Discord through website using Amazon SQS, 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 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* | [G](#) 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* | [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 and Tools | *Spark, HDFS, Ruby on Rails, Kafka, Git, Amazon Simple Queue Service*
Fundamentals | *Design Patterns, Object-Oriented Programming, Distributed Systems, ETL*