

# Adhikram Maitra

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## Experience

### MEDIA.NET (Directi)

Data Application Developer · Stack:- Scala, Java, SQL, Spark, Kafka, PySpark, Hdfs, Ruby

Remote, India

October 2021 - Present

Stack:- Scala, Spark, Hive

- Parameter Mismatch

**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

Backend Engineer · Stack:- Ruby on Rails, Python, Redis, Amazon SQS

Remote, India

October 2020 - October 2021

Stack:- Ruby on Rails, Python, Amazon SQS

- Discord Automation and Notification System

**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

Bachelor of Computer Science and Engineering ; CGPA 8.8/10

West Bengal, India

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