

Sanjeet Mukherjee

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Language agnostic back-end engineer with experience building and running low-latency distributed systems. Likes to simplify architecture and scale systems to run faster. Believes that software should be better.

Skills

Languages: Python, Java, Shell, Scala, Groovy

Technologies: Docker, gRPC, Kafka, Kubernetes, Profilers, Spark, Spring

Datastores: Postgres, Aerospike, Redis, HDFS, DynamoDB, S3

Infrastructure: AWS, Terraform, Jenkins, Ansible

Experience

Quantcast, London, UK

Senior Software Engineer

Sep 2020 – Present

- Tech lead of spend control team, owning architecture roadmap and providing mentorship for 4 engineers
- Operated multiple production bidding and pixel services serving >4M requests per second
- Consolidated 24 methods of building machine learning models onto a single unified platform, collaborating with cross-timezone data science teams, to streamline development and eliminate revenue-impacting incidents
- Overhauled fee platform, designed feature-set and led multiple product and platform teams to enable multiple million USD of new client billings in the first year of operation
- Redesigned spend feedback system to reduce global spend discrepancy to 0, recovering ≈10M USD billings per year
- Optimized kafka cluster, improving throughput and reducing cost by 40%; solved long-standing spend inconsistency
- Collaborated with Sales & Marketing to create client content that presents technical innovations without revealing IP

Kobalt Music Group, London, UK

Software Engineer

Aug 2019 – Aug 2020

- Developed data pipeline for royalty ingestion from circa 20 digital music streaming providers
- Re-evaluated database caching strategy to reduce royalty processing time by 30% and overall team cloud infrastructure cost by approximately 40%
- Wrote internal guide on best practices for Spark joins, resulting in 20% global EMR cluster cost savings

Deutsche Bank, London, UK

Software Engineer

Jul 2017 – Aug 2019

- POC redesigned the entire MIFID2 regulatory reporting base using Spark pipelines, improving reporting turnaround from several days to a few hours
- Built configurable Spring Boot client-side load balancer, adopted by multiple tech teams to improve service reliability

Deutsche Bank, London, UK

Software Engineering Intern

Jun 2016 – Aug 2016

- Architected, built, tested, and deployed a configurable simulated stock exchange supporting equity, future, and ETF markets concurrently
- Connected 16 trading containers to simulated exchange as a test bed for algorithm development

Education and Certifications

AWS Certified Solutions Architect

Amazon Web Services
2020

MEng Computer Science

First Class Honours

University of Southampton

2013-2017