Nirmal Mevada

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EDUCATION

Nirma University　　　　　　　　　　　　　　　　　　　　　　　　Ahmedabad, Gujarat
Bachelor of Technology in Computer Engineering; CGPA:8.2/10　　　　　*July 2016 – May 2020*

EXPERIENCE

D. E. Shaw India Pvt. Ltd.　　　　　　　　　　　　　　　　　　Hyderabad, Telangana

Project Lead　　　　　　　　　　　　　　　　　　　　　　　　　*Jan. 2025 – Present*
- Part of the FEEDS team, responsible for developing and maintaining low-latency global market data infrastructure for trading systems
- Loaded and validated 20+ years of Futures data for 35+ exchanges (120+ contracts)
- Managed team of 4 to load and validate 20+ yrs of NSE F&O data (60T+ records), addressing missing order executions

Senior Member Technical　　　　　　　　　　　　　　　　　　*Jan. 2023 – Dec. 2024*
- Developed data quality framework validating market data across exchanges and alert downstream applications; capable of validating 15+ years of data for 12 strategies in 3 days
- Managed 20+ years of BONDS historical data loading and validations (cross-source) for 5+ exchanges
- Designed Kafka publishing framework for UI applications achieving sub-minute latency with minimal config

Member Technical　　　　　　　　　　　　　　　　　　　　　*Dec. 2020 – Dec. 2022*
- Automated Exchange-Driven-Changes (EDCs), reducing TAT by 60%
- Implemented Crypto data pipeline for 6+ exchanges (150+ symbols), developing websocket recorders supporting 25k-level order books
- Built a real-time log parsing system for 1000+ processes using the ELK stack

Samsung R&D Institute　　　　　　　　　　　　　　　　　Noida, Uttar Pradesh
Software Developer Intern　　　　　　　　　　　　　　　　　*Jan. 2020 – April 2020*
- Worked as part of Camera Systems team.
- Implemented a U-Net-based deep learning model for real-time image de-blurring

PROJECTS

Single Feed Integrity Checker | *Python*　　　　　　　　　　　June 2024 – Present
- Developed a framework to validate market data integrity and alert downstream applications
- Demonstrated POC validating 15+ years of data for 12 strategies in 3 days; capable of handling millions of records across 50+ feeds with sub-minute latency

Data comparator and Analysis Tool | *Python, DJS/HighCharts, DataFrames/Pandas*　　Jan. 2023 – July 2023
- Python based framework to compare and analyze market data using Charts; supporting various data formats, types (L1, L2, L3) and latency parameters.
- Generates interactive multi-series charts with aggregations and supports parallelism for large datasets

Log Parsing and Analysis Tool | *Python, LogStash, Influx/ElasticSearch, Grafana*　　Mar. 2022 – Nov. 2022
- Developed real-time log parsing and monitoring system with ELK stack
- Demonstrated POC for 1000+ processes across distributed servers achieving latency in seconds.

TECHNICAL SKILLS

Languages: Python, C/C++, Java
Frameworks/Tools: Grafana, Kafka, LogStash, Influx, ElasticSearch
Developer Tools: Git, Jupyter, VS Code
Libraries: Pandas, NumPy