

# Harsh Rana | Web Data Automation & Pipeline Engineer

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Seeking: Fully Remote Engineering Roles (EU/UK/US)

## Professional Summary

I deliver end-to-end engineering solutions: from data acquisition and ETL design to containerization, orchestration, monitoring, and automated reporting. Every system I build is optimized for reliability, maintainability, and long-term performance.

## Technical Expertise

**Programming & Data Core:** Python, Pandas, NumPy, Pytest, AI (Concepts), PostgreSQL

**Automation & Acquisition:** Scrapy, Playwright, Requests, n8n.io, Bright data, 2Captcha (Proxy/Captcha Management)

**Cloud, DevOps & CI/CD:** Docker, AWS (EC2, S3, RDS), Basic GCP, Git, GitHub, GitLab CI/CD, GitHub Actions

**Orchestration & Monitoring:** Apache Airflow, Prometheus, Grafana, ScrapeOps, Performance Tuning, Alerting Systems

**Systems & Scripting:** Linux, Bash, Shell Scripting, YAML, Networking & Security Basics

## Key Projects & Engineering Maturity

### Production-Grade Data Platform

*Mercury Market Intelligence*

- Engineered a fully containerized, production-grade platform deployed on AWS, designed for market data acquisition and processing.
- Implemented automated pipelines and a workflow orchestration layer for reliable, scheduled data ingestion and transformation.
- Integrated Business Intelligence reporting tools to visualize key market insights for stakeholders.

### Real-time Data Processing

*Financial & Trading Analytics Platform*

- Developed a high-reliability data processing system capable of handling real-time financial and trading data streams.
- Established comprehensive observability, including custom monitoring dashboards (Grafana) and automated alerting systems (Prometheus).
- Focused on minimizing data latency and ensuring data integrity for critical decision-making processes.

### Scalable ETL & Machine Learning Integration

*Social Media NLP Pipeline*

- Designed a scalable ETL pipeline to ingest massive volumes of social media data from various APIs.
- Integrated machine learning models (NLP) for sentiment analysis and brand intelligence scoring.
- Optimized the data transformation layer to handle noisy, unstructured text data efficiently at scale.