

ZAFEER RANGOONWALA

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EDUCATION

The University of Texas at Dallas	Richardson, TX
<i>Master of Science, Computer and Information Science — GPA: 3.5</i>	May 2026
Indus University	Ahmedabad, India
<i>Bachelor of Science, Computer and Information Science — GPA: 3.5</i>	May 2024

SKILLS

Languages: Python SQL Java JavaScript/TypeScript Go PySpark
Frameworks: Django Flask PyTorch React Next.js Node.js Spring Boot GraphQL Apache Kafka
Data & Storage: PostgreSQL MongoDB Amazon RDS Hadoop Elasticsearch
Cloud & DevOps: AWS (EC2 S3 Lambda RDS) Docker Terraform GitHub Actions Kibana

WORK EXPERIENCE

Technology & Operations Worker	May 2025 – Present
<i>University of Texas at Dallas - International Center</i>	
<ul style="list-style-type: none">Coordinated cross-department IT onboarding and device provisioning by acting as a central point of collaboration between users, administrators, and support teams, reducing communication friction and accelerating service delivery with minimal management overhead.Streamlined end-to-end asset lifecycle and support workflows (imaging, access setup, deprovisioning, and issue resolution), standardizing processes and documentation to minimize handoffs, eliminate bottlenecks, and improve operational efficiency and user experience.	
Data Analyst	Jan 2024 – Jul 2024
<i>Delta Systems</i>	
<ul style="list-style-type: none">Architected scalable ETL pipelines using Python (Pandas, NumPy) and SQL, consolidating data from multiple structured sources into PostgreSQL, reducing end-to-end processing time by 30% and improving data reliability for downstream analytics.Designed robust data transformation and validation workflows, implementing schema normalization, data quality checks, and feature engineering pipelines to generate ML-ready datasets, improving clustering accuracy and reducing noise across high-volume records.Optimized complex SQL workloads through query refactoring, indexing strategies, and execution plan analysis, significantly reducing query latency and enabling near real-time analytical reporting for business stakeholders.Implemented unsupervised machine learning models using scikit-learn (k-means clustering) to segment large-scale customer datasets, driving targeted marketing strategies and measurable improvements in operational efficiency.	

PROJECTS

Traceline – Pipeline Anomaly Detection System <i>Python, AWS, React, ML</i> TidalHack '26 Winner
<ul style="list-style-type: none">Designed a feature-matching pipeline to link corrosion/anomaly records across inspections, improving match confidence and reducing manual review effort by 70%.Built a change-over-time (growth) analysis workflow to quantify corrosion progression and flag high-risk segments for prioritization using gradient boosting trees.Developed a web dashboard to visualize aligned runs and anomaly trends in an interactive view.Implemented data validation and quality checks (schema rules, outlier detection, missing-field handling) to ensure reliable outputs across 15 years and 11,500 rows of inspection data.
PotionWatch – Fraud Detection System <i>Python, Flask, Pandas, NumPy</i>
<ul style="list-style-type: none">Developed an automated fraud detection system for EOG Resources to identify discrepancies in transport documentation, detecting suspicious tickets and missing records across transactions, preventing revenue loss and improving audit compliance.Built a RESTful API with statistical outlier detection and real-time ticket-matching algorithms, processing time-series data across 12 collection sites, enabling the operations team to investigate anomalies.