

# Ali Haider

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## Summary

Automation Engineer with expertise in automating workflows, developing ETL pipelines, and integrating complex systems to enhance operational efficiency. Skilled in Python, SQL, and GIS tools, with hands-on experience building data models and dashboards for actionable business insights. Recognized for delivering scalable, high-impact solutions in dynamic environments.

## Skills & Abilities

- Programming Languages: Python, JavaScript, C++
- Data Engineering: ETL pipelines, Data Warehousing, Data Modeling, Docker, SQL, SSAS, SSIS
- Cloud Computing: Aws
- Visualization: Microsoft Power BI, Tableau
- Database Technologies: Microsoft SQL Server, MongoDB
- Version Control: Git, GitHub, Linux kernel
- Frameworks: PyQt5, Flask, OpenCV, GIS, React
- AI/ML: Scikit-learn, TensorFlow, OpenCV, Model Deployment, Generative AI

## Experience

**Huawei** - Saudi Telecommunication Company – Saudi Arabia (On Site)

**Data / Automation Engineer**

Jan 2023 - Present

- Built an industrial-grade hybrid RAG for network automation using a **local LLM**, combining **OpenSearch BM25 + vector search** to deliver source-grounded answers over runbooks, device configs and **LLD network design documents**.
- **Led end-to-end delivery** of 15+ data automation workflows for business-critical processes (Fiber Relocation, Copper Sunset), impacting 5+ departments and reducing manual workload by 80%.
- Built a controlled **network configuration rollout** platform with approval workflows, scheduled execution, automated pre-checks/dry-run impact analysis, and rollback readiness to reduce outage risk and ensure auditable changes.
- Designed and deployed 20+ data models on **SQL Server Analysis Services (SSAS)** to enable data visualization and generate business insights via dashboards using React.
- Developed Python-based data pipelines 15+ to automate data extraction, transformation, and loading (**ETL**) processes into data warehouses, ensuring clean and structured data for analysis.
- Implemented Apache Airflow using Docker containers for the orchestration of data pipelines.
- Integrated on-premises systems with cloud platforms to seamlessly transfer Workforce Management (WFM) data, improving data availability and accuracy for real-time operations.
- Developed **AI-driven** solutions using Scikit-learn and TensorFlow, including an automated preventive maintenance (PM) checklist fulfillment system to reduce manual workload and improve accuracy, and a custom CAPTCHA solver to streamline internal workflows.
- Leveraged **GIS tools** to visualize and analyze cleansed customer data on maps, facilitating geographic insights and enabling detailed drill-down capabilities.
- Developed network automation tools using Python and Selenium, streamlining workflows, integrating with existing infrastructure, and reducing processing time by 80%.

**Technology Stack:** Python, Microsoft SQL Server, SSIS, SSAS, GIS, OWS, JavaScript, React, RESTful APIs.

**Projects:**

- Saudi Telecommunication Company – Field Operations Project (On Site)
- Saudi Telecommunication Company – Smart Patrolling System (On Site)
- Bahrain STC – Ticketing System

## GREENVORX

### Software Developer

Jan 2022 – Dec 2022

- Developed and optimized data pipelines 5+ using Python (Flask), leveraging ETL processes and data integration techniques to ensure efficient data flow and seamless connectivity between systems.
- Designed and managed data infrastructure to support the company's backend systems, ensuring high availability and performance.
- Built a Human Resource Management System (HRMS) using Python, providing data-driven insights into employee performance and organizational structure.
- Worked extensively on backend development projects, specializing in data integration and API creation to enhance and streamline system functionality.

**Technology Stack:** Python, JavaScript, React.

**Projects:**

- Human Resource Management System
- KPI Monitoring System Project

## Education

### Bachelor of Computer Science

FAST (National University of Computer and Emerging Sciences)

June 2018

- Awarded High Achievers Award by dean of university in CS Dept.
- FYP: an AI-powered smart solution for Online Examination using Head Pose and Object Detection.

## Certification & Training

### *AWS AI Practitioner*



### *Oracle Cloud Infrastructure Foundations*



### *Cisco Certified Network Professional*



### *NUCES ACM Student Chapter (chairperson)*

