

PERSONAL
INFORMATION

Ali Fazeli

APPLIED
POSITION

Data/MLOps Engineer

☎ 0912 818 8680
📍 Tehran

✉ a.fazeli95@gmail.com
🌐 <https://alifzl.com>

📅 20/08/1995



Profile:

Elite **Data & MLOps Engineer** with 9+ years of experience architecting mission-critical, high-throughput data ecosystems for the Telecommunication, Ad-Tech, and IT sectors. A catalyst for backend transformation, specializing in end-to-end **Pipeline Optimization**, comprehensive infrastructure **redesign**, and deploying highly scalable ML/AI architectures. Proven track record of engineering massive-scale data lakes (**45+ TB**), ultra-low latency **streaming platforms (50K+ EPS)**. Deeply proficient in blending cutting-edge **NoSQL** environments, **distributed compute engines**, and rigorous **data governance** to drive unprecedented **business intelligence** and **system performance**.

WORK EXPERIENCE

Lead Data Engineer
& Solution Architect



at Thousand Ways (Hezar Gozar), Tehran, Iran

sector: Telecommunication, IT

May 2020–Present
(6+ Years)

Spearheaded the **architectural Design** and end-to-end development of **Zhaav**, a high-performance, intelligent cloud-native big data visualization platform. **Directed** a specialized team of **6 engineers** to deliver fault-tolerant data solutions for enterprise telecom clients. Also Achieved Knowledge Based (**Danesh Bonyan**) certificate throughout the journey.

Responsibilities

- ◆ **Massive-Scale Data Architecture:** Engineered and governed a highly resilient historical data lake housing **35+ TB** of data, seamlessly orchestrating the ingestion, validation, and processing of **60+ Gigabytes (GB)** of new, heterogeneous data daily with zero data loss.
- ◆ **Real-Time Streaming Ecosystem:** Architected a high-throughput **SQL** streaming infrastructure processing **50,000+ Events Per Second (EPS)**. Heavy-lifting was executed using **RisingWave** on **Kubernetes**, leveraging **Redpanda** and **Protobuf** for structured streaming before writing digested analytics to an **Apache Doris** and **Click House** data warehouses.
- ◆ **Advanced Pipeline Optimization:** Implementing **Apache Airflow** to guarantee robust, fault-tolerant ELT/ETL execution, as well as development of standard battle-ready data pipelines.

Achievements

- ◆ Contributed in various projects in terms of **data pipeline fine tuning**, business domain pattern recognition, etc. (due to the non-disclosure agreements with our national customers, related work portfolio can be provided upon request.)
- ◆ **AI & vGPU Infrastructure:** Deployed **Zhaav-SAS**, a production-grade Smart Assistant System utilizing RAG-based offline **LLM** integrations. Pioneered a CRD-based **vGPU** virtualization service in **Kubernetes** clustering **Nvidia H200s**, dynamically optimizing GPU resource allocation for heavy ML workloads.

Senior MLOps



at Sheypoor, Tehran, Iran

sector: Ad-tech

Aug 2022–Mar 2023
(~half Year)

Led a high-impact organizational **data transformation initiative**, embedding **Data Fabric principles** and modernizing the **AI/ML lifecycle** for a premier Ad-Tech platform.

Responsibilities

- ◆ **MLOps Lifecycle:** Designed and deployed a comprehensive **MLOps** ecosystem using **Polyaxon**, enabling rapid model experimentation, sandboxing, and frictionless hyperparameter fine-tuning for the core Data Science team.
- ◆ **ETL Modernization:** Executed a flawless migration of legacy data pipelines from **Hitachi PDI (Spoon)** to **Apache Airflow**, drastically improving system reliability, pipeline monitoring, and execution speed.

Achievements

- ◆ **Algorithmic Recommender Redesign:** Re-engineered the real estate Content-Based Filtering Recommender System. Tailor-made a high-velocity vector similarity search algorithm utilizing Facebook's **FAISS** library and **Elasticsearch**, achieving a sustained **400+ Transactions Per Second (TPS)** with **sub-50ms** latency.
- ◆ Deployed MLOps pipeline (**Polyaxon**) as well as a series of workshops, explaining how to utilize it for data science experimenting, data sandbox and ML fine tuning.

Data Consultant at  BRGroup CTO Department, Blue Ray Company, Tehran

sector: Telecommunication

Jan 2022–June 2022

(~half Year)

Consulted on critical **OSS digitalization** targets, architecting an enterprise-grade cross-network **SLA tracking solution** between BRTell and MTN Irancell.

- Responsibilities
- ◆ **Solution architect:** (SA) of SLA Calculation Solution.
 - ◆ **Enterprise Data Pipelines:** Engineered an automated reporting pipeline (managing a complex 7,000+ line codebase) utilizing **Python**, **Ansible**, and **Celery**, delivering near real-time performance insights directly to the network optimization team.
- Achievements
- ◆ **Automated Interfaces:** Designed highly efficient, automated invocation procedures for the NMOS query interface, eliminating manual bottlenecks.

Data Analyst at  Huawei Technologies, Tehran

sector: Telecommunication

May 2018–May 2020

(2 Years)

Core engineering member of the Customer Experience Management (**CEM**) project, maintaining massive-scale data infrastructures and delivering actionable BI. Participated through maintaining the big data lake of user-plane and signalling data, based on **Apache Hadoop**, Including **Impala** and **Hbase**. create and maintain **BI reports** using **Tableau** and my **Pandas** Programming skills to verify the **data accuracy** of our big data infrastructure.

- Responsibilities
- ◆ Determining business KPIs and the correlation factors, as well as **KQIs (Key Quality Indicator)** assessment in order to intensify quality of MTN Irancell's network and also refining the network's failure points.
 - ◆ Extracting data from mentioned data sources, doing the **ETL/ELT** process on them via tools like **Tableau Prep**, **Python** scripts and **Airflow** to make the customized correlation between raw data and business KPI/KQIs. Plus creating Stored Procedures and Triggers in order to ensure the availability of every aggregation level of data was part of my job.
 - ◆ Developing **python automation scripts** in order to facilitate Telco Demarcation Processes.
 - ◆ **Big Data Infrastructure:** Maintained and optimized a highly available big data lake for user-plane and signaling data utilizing **Apache Hadoop**, **Impala**, and **HBase**.
 - ◆ **Data Modeling & BI:** Developed complex ELT pipelines via **Apache Airflow**, **Tableau Prep**, and **Python** to correlate raw signaling data into distinct Key KQIs, visualizing outputs dynamically in **Tableau**.
- Achievements
- ◆ I've held two series of Python training course for my Telecom colleagues, building up their automation skills, using Pandas and Numpy.
 - ◆ Engineered robust **Python**, **Pandas**, and **NumPy** automation scripts to streamline Telco Demarcation processes. (Recognized as **Employee of the Month, Aug 2019**).

CONSULTANCIES

- ◆ **MCI (Hamrah e Avval):** 3-month Data Engineering consultancy optimizing CEM project data workflows and infrastructure.
- ◆ **Tsitano & Neuroship.ai:** Architected highly scalable Data and MLOps pipelines for two international AI and Tech startups.

EDUCATION

MASTER OF ARTIFICIAL INTELLIGENCE

September 2019

-

January 2021

at



Islamic Azad University Science and Research Branch, Tehran, Iran

- ◆ Paused degree (GPA: 2.7) to pursue rapid career acceleration and leadership roles in enterprise data engineering.

BACHELOR OF ENGINEERING IN COMPUTER ENGINEERING

September 2013

-

January 2018

at



Tabriz University, Tabriz, Iran

- ◆ Advanced Programming *Teacher assistant* (2 Semesters)
- ◆ Active Member of university's scientific association

PERSONAL SKILLS

Organisational
and
managerial skills

- ◆ Leadership, as well as Collaborative
- ◆ Happy to discuss technical challenges throughout the team

Communication skills

- ◆ Ethical Work Commitment
- ◆ Good Listener

Mother tongue

Farsi (Persian)

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
Proficient	Proficient	Independent	Proficient	Proficient

TECHNICAL
COMPETENCY

Programming Languages	<ul style="list-style-type: none"> ◆ Python (PRO) ◆ Bash Script (IN) ◆ Rust (LE) 	Data Quality & Manipulation	<ul style="list-style-type: none"> ◆ Pandas & NumPy (PRO) ◆ Polars (PRO) ◆ Great Expectations (PRO)
ETL/ELT	<ul style="list-style-type: none"> ◆ Apache Airflow (PRO) ◆ Hitachi PDI (IN) 	Relational Databases	<ul style="list-style-type: none"> ◆ Postgres (PRO) ◆ MySQL (PRO) ◆ Oracle (IN)
Non-Relational Databases	<ul style="list-style-type: none"> ◆ MongoDB (IN) ◆ Redis (PRO) ◆ MinIO & RustFS (IN) 	Analytical Databases	<ul style="list-style-type: none"> ◆ ClickHouse (PRO) ◆ Apache Doris (PRO)
Data Stream Stack	<ul style="list-style-type: none"> ◆ RisingWave (PRO) ◆ Kafka/ Redpanda (IN) ◆ GlassFlow (PRO) 	Cloud Native Stack	<ul style="list-style-type: none"> ◆ Docker (PRO) ◆ Kubernetes (IN)
LLM Stack	<ul style="list-style-type: none"> ◆ Langchain (PRO) ◆ N8N (IN) ◆ LiteLLM (IN) 	Application Performance Monitoring	<ul style="list-style-type: none"> ◆ Prometheus (PRO) ◆ Grafana (PRO) ◆ Logstash (IN)
Visualization & BI	<ul style="list-style-type: none"> ◆ Tableau (PRO) ◆ Apache Superset (IN) 	Infrastructure	<ul style="list-style-type: none"> ◆ VMware Stack's ESXi and VCenter (IN) ◆ Ansible (IN)
MLOPs	<ul style="list-style-type: none"> ◆ MLFlow (IN) ◆ Open metadata (LE) 	Operating System	<ul style="list-style-type: none"> ◆ Debian based Linux (PRO), LPIC-2 certified) ◆ MacOS (IN)

(IN): Independent

(PRO): Proficient

(LE): Learning

ADDITIONAL
INFORMATION

Github

<https://github.com/alifz/>

Youtube Channel

<https://youtube.com/@alifz/>

Linkedin

Huggingface

<https://linkedin.com/in/alifz/>

<https://huggingface.co/alifz/>