

# ZAHRA DEGHANI

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## EXPERIENCE

### Backend Developer

Torfehnegar Holding | Financial and Accounting

Dec 2024 – Present

Full-time | Tehran

- Developed and maintained unit tests for core backend services, ensuring code reliability and stability.
- Designed and implemented an infrastructure for running unit tests in GitLab CI/CD, enabling automated test execution and improving development workflow.

### Backend Developer

Tose Arzesh Afarin Novin Sepehr | Algorithm Trading

Nov 2023 – Nov 2024

Full-time | Tehran

- Developed and maintained an advanced analytical exchange dashboard using FastAPI, addressing the challenge of efficiently analyzing and visualizing vast amounts of exchange data.
- Built a backtesting system with FastAPI, solving the need for a robust platform to test and optimize trading strategies before live deployment.
- Created an algorithmic trading system with Python and TimescaleDB, enabling seamless automation and execution of trades while handling large datasets in real-time.

### Python Developer

Pomechain | E-commerce

Feb 2023 – Nov 2023

Full-time | Abu Dhabi

- Implemented automated processes for data sanitization using Python, addressing the need for efficient and consistent cleaning of large datasets.
- Developed a perfume recommender system with Django REST framework, solving the challenge of enhancing user engagement through personalized product recommendations.

### Data scientist

Jarfa co | Fraud Detection in Insurance

Mar 2022 – Dec 2023

Full-time | Tehran

- Utilized advanced data-cleaning methodologies, solving the problem of poor data quality by addressing missing data, outliers, and discrepancies that could skew analysis results.
- Ensured data integrity and accuracy, tackling the challenge of unreliable data, which in turn improved the credibility and precision of subsequent analyses.
- Employed sophisticated feature engineering methods, resolving the issue of underperforming machine learning models by extracting novel features that optimized their efficacy and accuracy.

## TECHNICAL SKILLS

**Languages:** Python, Go, R

**Frameworks:** FastAPI, Django (DRF)

**Developer Tools:** Git, Docker, GitLab CI/CD, Prometheus, Grafana

**Databases:** PostgreSQL, MySQL, SQL Server, Redis, TimescaleDB

**Data Engineering Tools:** PySpark, Kafka, RabbitMQ

**Testing & Performance:** pytest, Locust

**Deep learning Libraries:** TensorFlow, PyTorch, Keras

## EDUCATION

### Iran University of Science and Technology

Master's in Software Engineering

Tehran, Iran

Sep 2020 – Jun 2023

### Alzahra University

Bachelor's in Statistics

Tehran, Iran

Jan 2014 – Jan 2018

## LANGUAGES

### Persian

Native

### English

Upper Intermediate