ZAHRA DEHGHANI

+989382489511 | dehghani.m.zahra@gmail.com | linkedin.com/in/zahra-dehghani-m/ | github.com/zahradm/

EXPERIENCE

Backend Developer — Dec 2024 – Present
Torfehnegar Holding | Financial and Accounting — *Full-time | Tehran*

- Built a marketplace microservice with Python, FastAPI, and RabbitMQ for scalable transaction processing.
- Profiled and optimized a pulse microservice, reducing CPU usage from 80% to 40% through performance tuning and efficient resource management.
- Implemented user stories and features, collaborating with cross-functional teams to deliver business-critical functionalities on time.
- 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 — Nov 2023 – Nov 2024
Tose Arzesh Afarin Novin Sepehr | Algorithm Trading — *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 — Feb 2023 – Nov 2023
Pomechain | E-commerce — *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 — Mar 2022 – Dec 2023
Jarfa co | Fraud Detection in Insurance — *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.
- 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, MongoDB
Data Engineering Tools: PySpark, Kafka, RabbitMQ
Testing & Performance: pytest, Locust
Software Architecture & Design: Domain-Driven Design, Microservices, Event-Driven Architecture, Design Patterns
Deep learning Libraries: TensorFlow, PyTorch, Keras

EDUCATION

Iran University of Science and Technology — Tehran, Iran
Master's in Software Engineering — *Sep 2020 – Jun 2023*

Alzahra University — Tehran, Iran
Bachelor's in Statistics — *Jan 2014 – Jan 2018*

LANGUAGES

Persian
Native

English
Upper Intermediate