

AMIR MAHDI DARAEI

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EDUCATION

B.Sc. in Computer Engineering
Sharif University of Technology

📅 Sept 2020 – Now 📍 Tehran, Iran
• GPA: 3.44/4

Diploma of Mathematical Sciences
Imam Javad High School

📅 Sept 2017 – June 2020 📍 Tehran, Iran
• GPA: 4/4

RELEVANT COURSEWORK

Sharif University of Technology

- 📍 Tehran, Iran
 - Probability and Statistics – AA
 - Linear Algebra – AA
 - Artificial Intelligence – A-
 - Data Structures and Algorithms – AA
 - Discrete Mathematics and Structures – A
 - Game Theory – A-
 - Advance Programming – AA
 - Design of Database – AA
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- ML – Ongoing
 - Advanced Information Retrieval – Ongoing
 - Design and Analysis of Algorithms – Ongoing

Online Courses

- MIT - Artificial Intelligence | 6.034
 - – MIT OCW / Harsha G.
- Google Machine Learning Crash Course
 - – Google
- Stanford CS229: Machine Learning
 - – Stanford Online / Andrew Ng
- MIT - Introduction to Deep Learning | 6.S191
 - – MIT OCW / Alexander Amini
- Neural Networks and Deep Learning
 - – Coursera / DeepLearning.AI / Andrew Ng
- Stanford CS224N: NLP with Deep Learning
 - – Stanford Online
- First Principles of Computer Vision Specialization
 - – Coursera / Columbia University

LIFE PHILOSOPHY

Charlie Chaplin once said:

“Life is a tragedy when seen in close-up, but a comedy in long-shot.”

So let it flow!

MOST PROUD OF

I Yektanet's Growth

From delivering a hundred thousand SMS per day to over twenty million, which now accounts for a significant portion of Yektanet's daily turnover.

II Theater of Dreams

From playing in children's playgrounds to winning the championship of the under-17 Asiavision League of Tehran province, the love for football still runs through my veins.

III Inspiring Teenagers of My Homeland

Ranked 116 among 160k+ participants in Iran's national university entrance exam in 2020 (aka. Konkur).

SKILLS

PyTorch NumPy Pandas TensorFlow
Scikit-Learn PySpark GYM Python
R Mojo Django Golang ElasticSearch
Grafana Kafka RabbitMQ Redis
Java & JavaFX C & C++ C# ASP.NET
SQL Git Ubuntu Docker Kubernetes

INTERESTS

AI Natural Language Processing
Machine Learning Deep Learning
Reinforcement Learning
Computational Neuroscience
Visual Computing Bioinformatics
Algorithms Game Theory
HCI CSCW

ACADEMIC EXPERIENCE

Researcher – with Helia Akhtar Kavian

📅 Sep 2023 – Ongoing

📍 Tehran, Iran

- **Smart-Floating Bidding**

Involved in the design and implementation of a smart-floating bidding model for advertising, a machine-learning solution that optimizes bidding strategies to enhance the effectiveness of on-line advertising campaigns. This model is trained on a pre-collected dataset using offline RL and tries to adjust the suggested bids dynamically based on market conditions, user behavior, and campaign objectives in real-time.

Teacher Assistant

Sharif University of Technology

📅 Sep 2022 – Ongoing

📍 Tehran, Iran

- **Probability and Statistics** – Feb 2022
- **Data Structures and Algorithms** – Feb 2022
- **Fundamentals of Programming** – Sep 2023

WORKING EXPERIENCE

Software Engineer - L3

 **Yektanet**

📅 Apr 2023 – Ongoing

📍 Tehran, Iran

- **SMS Campaigns – Yektanet's new business line**
 - Contributed to the launch of the service.
 - Led to a 3x upsurge in system capacity by adding a deactivate/retry service on phone numbers blocked SMS ads using Kafka and a self-implemented async queue via Golang channel.
 - Made Golang services scalable, resulting in a 4.4x system performance boost under high loads.
 - Led to integrate SMS service with another ICT provider by observing Adapter, Decorator, and Proxy design patterns.
 - Added multi-selection segments of audience feature to the service.
- **Push Campaigns**
 - Contributed to rewriting the push campaigns service via Golang.

Software Engineer - Junior

 **Mofid Securities**

📅 Feb 2022 – Oct 2022

📍 Tehran, Iran

- **Marketing Tools**
 - Contributed to rewriting the deposit interest system offered by Mofid to its VIP stakeholders.
- **Other**
 - Applied clean coding principles at the organization level.
 - Carried out maintenance, bug-fixing, and coverage testing tasks.

PROJECTS

- **Image Processing**

- final project of Linear Algebra course

NumPy

Pandas

PyTorch

PyPlot

- **Clustering Graphs of Netflix Tastes**

- final project of Probability and Statistics course

NumPy

PyTorch

PyPlot

- **Implementing RL for a Taxi Driver**

GYM

NumPy

PyPlot

- **N-Queens**

CSP

NumPy

Pandas

PyPlot

- **Tic-Tak-Toe – minimax agent**

PyGame

NumPy

- **Bayesian Network**

PgmPy

NumPy

- **MLP**

PyTorch

NumPy

- some projects of AI course

- **C-Minus language compiler**

- final project of Compiler Design course

Python

- **Yu-Gi-Oh**

- final project of AP course

Java

JavaFX

- **Bank Database**

- final project of DB course

MySQL

Django

- **Mofid Securities Internship Projects**

C#

ASP.NET

Quartz.NET

LINQ

Redis

RabbitMQ

LANGUAGES

Persian

Native




English



REFEREES

- **Kamyab Zareh**

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 kamyab-zareh

- **Alireza Hosseini**

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