





# Amir Pourmand

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## Work Experiences

### Software Developer

July 2016 – January 2020

*Amapardazesh Sepand Inc.*

*Supervisor: S. Tavakoli*

Description: The projects I worked on during my four years with Sepand Inc. were as follows:

- ◇ Query Optimization in SQL-Server
- ◇ Automatic updating of application using GoogleDrive API
- ◇ Report generator for DataGridView in StimulSoft Report
- ◇ Integrating different devices (POS, Scale, SMS, TelegramBot) with Sepand Application
- ◇ Database Schema Comparer and Upgrader using DACPAC

### English Teacher

July 2017 – January 2018

*Zaban Gostar Institute*

*Supervisor: F. Fatemi*

Description: I served as an English teacher for pre-intermediate students for one semester.

## Technical Skills

**Programming Languages:** Proficient: Python, C#, SQL (T-SQL); Intermediate: Java, MATLAB

**Developer Tools:** VIM, VS Code, Jupyter Notebooks, Visual Studio, Android Studio

**Databases:** Proficient in SQL-Server, Familiarity with Mongo-Db

**Tools:** L<sup>A</sup>T<sub>E</sub>X, Git, Docker, Jekyll, Hugo

**Operating Systems:** Manjaro (Arch Linux), Kubuntu (Debian), Fedora (KDE spin), Windows

## Education

### Sharif University of Technology

Sep. 2020 - Present

*Master of Science in Artificial Intelligence and Robotics*

*Tehran, Iran*

- ◇ GPA: **18.83/20** or 4/4
- ◇ Relevant courses: Deep Learning (19.4/20), Natural Language Processing (19.4/20), Machine Learning (19.5/20), Statistical Machine Learning (19/20),
- ◇ Master's Project (Supervisor: Prof. Hamid R. Rabiee):
  - ◇ Project Title: Real-time automatic Polyp detection and classification using interpretable AI (XAI)
  - ◇ Project Summary: The purpose of this paper is to enhance the YOLO algorithm's performance in handling labeled and unlabeled data using a semi-supervised learning framework. The study proposes an innovative approach that integrates semi-supervised learning and interpretability to improve the performance and transparency of the YOLO algorithm.

### Yazd University

Sep. 2016 - Sep. 2020

*Bachelor of Science in Computer Engineering*

*Yazd, Iran*

- ◇ GPA: **17.47/20** or 3.66/4, Units: 140
- ◇ Relevant courses (GPA: **19.95/20**): Intelligence and Expert systems (19.7/20), Foundations of Information Retrieval and Web Search (20/20), Fundamentals of Information Technology (20/20), Microprocessors and Assembly Language (20/20), Principles of Database Design (20/20), Internet Engineering (20/20)
- ◇ Bachelor's Project (Supervisor: Prof. V. Derhami):
  - ◇ Project Title: A Recommendation System for shopping centers using Apriori Algorithm
  - ◇ Project Summary: We analyzed data from an SQL-Server database to find frequent item sets and compute metrics such as lift. These insights were then used to suggest products to customers.

## Academic Projects

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### Deep Learning

Sharif University of Technology, <https://github.com/pourmand1376/DL-Homeworks>

**Aug 2021 - Jan 2022**

Supervisor: Prof. Hamid Beigy

### Stochastic Process

Sharif University of Technology, <https://github.com/pourmand1376/SP-Homeworks>

**Aug 2021 - Jan 2022**

Supervisor: Prof. Hamid R. Rabiee

### Machine Learning

Sharif University of Technology, <https://github.com/pourmand1376/ML-projects>

**Jan 2021 - July 2021**

Supervisor: Dr. M. Rohban

### Statistical Machine Learning

Sharif University of Technology, <https://github.com/pourmand1376/SML-projects>

**Jan 2021 - July 2021**

Supervisor: Prof. Rabiee

### Digital Image Processing

Sharif University of Technology, <https://github.com/pourmand1376/DIP-projects>

**Jan 2021 - July 2021**

Supervisor: Prof. Kasaei

### Compiler and Parser

Yazd University, <https://github.com/pourmand1376/Parser>

**December 2019**

Supervisor: Dr. ZarePour

### Web Crawler, Indexer and Search Engine Web Application

Yazd University, <https://github.com/pourmand1376/Crawler>

**November 2018**

Supervisor: Dr. A. Zareh

## Industrial Projects

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### Heart Rate Monitor Application (ECG)

Yazd University

**July 2019 - Sep 2019**

Supervisor: Prof. V. Derhami

Description: The app receives real-time data from a wireless ECG device via Bluetooth and displays it as a graph. However, some of the data was distorted or lost, making it difficult to consistently display it.

### Web application to manage invoice and account

Amapardazesh Sepand Inc., Tavoni Etebar Kargaran Bafgh (Samen)

**January 2019 – March 2019**

Supervisor: S. Tavakoli

Description: This web application provides a RESTful API for Android clients and an ASP.NET web application to show customers how much they owe the company.

### Car Management for IranKhodro

Amapardazesh Sepand Inc., IranKhodro Yazd (4022 Branch - Farashahi)

**July 2013 – November 2013**

Supervisor: S. Tavakoli

Description: My first encounter with any programming language was with this Windows-forms application that managed parking lots, controlled vehicle entrance and exit, and generated management reports.

## Open Source Contributions

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### Contributions to YOLOv5

Link to repo: <https://github.com/ultralytics/yolov5>, #9059, #8694, #8766

**2022**

Maintainer: Glenn Jocher

### Contributions to al-folio

Link to repo: <https://github.com/alshedivat/al-folio>

**June 2022**

Maintainer: Al-Shedivat

### Open source Crawler for Persian websites

Link to repo: <https://github.com/pourmand1376/PersianCrawler>

**July 2022**

Maintainer: Me

### Translating ShareX to Persian ([Link](#))

Link to repo: <https://github.com/ShareX/ShareX>

**July 2019 – August 2019**

Maintainer: Jaex

## Honors and Awards

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- ◇ Ranked **1st** among over 16,000 graduate applicants in the Iranian National University Entrance Exam (Konkur) for M.Sc. of Computer Engineering in **7 (all CE) majors**, August 2020 (This rank is **unprecedented** in history of CE University entrance exam).
- ◇ **Silver Medal** in the 25th Scientific Olympiads for Iranian University Students in February 2021.
- ◇ Awarded a grant by National Elite Foundation for two semesters (1 year), October 2021.
- ◇ Ranked 1st in the 24th Scientific Olympiads for Iranian University Students in Region 6 and Ranked 16th in the country in 2019.
- ◇ Offered admission to M.Sc. program in Artificial Intelligence at Yazd University as a talented undergraduate student, August 2020.
- ◇ Ranked among the top 1 percent in the Iranian National University Entrance Exam (1896th among over 300,000 participants), June 2016.

## To Be Submitted Papers

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### Real-time Detection of Brain Aneurysm via Multi-View YOLOv5

**Jun 2022 - Present**

*Sharif University of Technology, Tehran University of Medical Sciences*

*Supervisor: Prof. Hamid R. Rabiee*

Description: Our project involved customizing the YOLOv5 algorithm to detect brain aneurysms in 2.5D CT scans. The network structure was modified to accept multiple images of the same patient as a single input, which helped the network to make better use of available information.

## Internships

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### Web application for restaurant

**July 2018 – October 2018**

*Amapardazesh Sepand Inc.*

*Supervisor: S. Tavakoli*

Description: As well as developing a RESTful API service for Android devices, I built a dashboard (based on ASP.NET) for managers to customize the restaurant according to their preferences.

## Languages

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**English:** [TOEFL](#): 103 (R: 27, L: 26, S:24, W:26) (Equivalent to C1)  
[ILI Certificate](#) (Equivalent to C2)

**Persian:** Native

**Arabic:** Basic

## Extracurricular

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**Sports:** Mountain climbing, biking, swimming, playing chess!

**Other activities :** Blogging (see [amirpourmand.ir/blog](http://amirpourmand.ir/blog) and [aprd.ir](http://aprd.ir) )