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**EMPLOYMENT****Backend Web Developer** **Pasavan Co.** **July 2019 – April 2020**

Recruited as a backend developer following a couple of weeks of interning for this company.

Primarily utilized Laravel (a PHP framework, which is based on MVC).

- Created various websites such as an energy resources website, and a forum website.
- Occasionally tasked in assisting the deployment of APIs or working on the frontend of websites.

**Teaching Assistant** **Ferdowsi University of Mashhad** **January 2019 – January 2020**  
**September 2022 – January 2023**

TA of the Logical Circuits course and the masters level Introduction to Computer Vision course at Ferdowsi Uni.

Taught students and solved their course-related problems on a weekly basis.

- Computer Vision: would prepare code prior to each class and explain the code and its results to the students.
- Logical Circuits: was assigned as head TA of the course which required grading students based on the effort they put into the coursework, as well as supervising the work of other TA's.

**Computer Vision Leader** **FUM Robotics & Computer lab** **April 2021 – November 2021**

Leader of the Vision section of a large-scale project involved in creating a real-life ping-pong playing robot.

- Achieved many of the vision tasks that were required for the project by using MATLAB. These include tracking the ping-pong ball, obtaining the speed of the ping-pong ball, plotting the trajectory of the ball.
- Supervised and guided students who were working in the vision field of this project.

**Data Scientist, Intern** **Wise Intelligent Agents Co.** **July 2021 – September 2021**

The main focus of this internship was on NLP.

- Assisted in the implementation of a query graph generator for answering complex questions in a Persian knowledge base called Farsbase.
- Given a large dataset (>13GB) of Persian news articles, cleansed the data at hand and visualized the data in various manners in order to gather useful information from it.
- Implemented unsupervised learning on the collection of sentences in the news articles by initially tokenizing the sentences using three different text tokenization algorithms, and then applying K-Means.

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**EDUCATION**

- **BSE in Computer Engineering, Ferdowsi University of Mashhad**, September 2017 – January 2022, GPA: 3.4/4, GPA of last two years: 3.73/4
- **MS in Computer Science (AI focused), University of Melbourne**, February 2023 – present (ongoing)
- **Related University Coursework:** Artificial Intelligence (3.5/4); Computational Intelligence (4/4); Computer Vision (3.5/4); Evolutionary Computation (3.3/4); Databases (3.8/4); Data Mining (3.84/4); Operating Systems (4/4); Compiler Design (4/4); Video Game Design (2.8/4); Software Testing (3.5/4); Micro Economics (4/4);
- **Related Courses completed outside of university:** Machine Learning by Andrew NG (Coursera); Deep Learning Specialization by Andrew NG (Coursera); PHP with Laravel by Edwin Diaz (Udemy); Blockchain and Money by Gary Gensler (MIT OCW)

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**TECHNICAL EXPERIENCE****Projects**

- **Flappy Bird NeuroEvolution** (2020). Created an AI which masters Flappy Bird after a few minutes of training. Achieved by mixing the genetics algorithm with feedforward neural networks
- **Predicting Movie Genres** (2021). Engineered and trained ML classifiers which predict movie genres based on the movie's overview. Achieved by extracting features for each of the overviews using NLP algorithms

- **Unsupervised Learning using Neural Networks** (2021). Researched on how neural networks can be used for clustering data, and then demonstrated a suggested method with code. Self-Organizing Maps (AKA Kohonen Maps) were used for this project.

\* All of the mentioned projects (and many others) are available on [Github](#)

### **Languages and Technologies**

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Python; C; Java; C#; PHP; SQL; JavaScript; MATLAB; Dart; Git;

Tensorflow; Keras; Pandas; Numpy; Matplotlib; Unity; Laravel; HTML/CSS; SPARQL; Flutter