

# MOHAMMAD MAHDI HEYDARI

---

Tehran, Iran  
Email: [mohamad-mehdi@live.com](mailto:mohamad-mehdi@live.com)  
Tell: +98 938 342 1467



## CURRICULUM VITAE

## RESEARCH INTERESTS

---

Machine learning  
Biomedical image processing  
Protein structure prediction  
Bioinformatics and Computational biology

## EDUCATION

---

- 2019 – Now    **MSc in Bioinformatics**  
Sharif University of Technology, Tehran, Iran
- 2014 – 2018    **BSc in Software Engineering**  
Razi University, Kermanshah, Iran  
General GPA: **3.87** (18.55/20), Specialized GPA: **3.94** (19.03/20), Rank: 1<sup>st</sup>  
Advisor: Dr. Fardin Abdali-Mohammadi  
Thesis: A patient drug consultant system using image processing techniques
- 2009 – 2013    **Diploma in Mathematics and Physics**  
National Organization for the Development of Exceptional Talents(Sampad), Kermanshah, Iran

## WORKING EXPERIENCE

---

- 2018 – 2019    Head of Program Development, Online Competition Platform Project
- Integrated management and ranking platform for online competitions
  - Used to handle 2<sup>nd</sup> Capture the Flag (CTF) competition of the west (Razi Cert Group spring 2019)
  - Under Dr. Hamed Monkaresi supervision at Razi CERT group (APA)
- 2017 – 2019    Head of Program Development, Parsso Project
- Enterprise single sign-on
  - Under Dr. Hamed Monkaresi supervision at Razi CERT group (APA)
  - Available at "<https://parsso.ir>"

- 2016 – Now**      **Backend Programmer and Sys Admin, AppAzmoon Project**
- Digital system for publishing textbooks and exams
  - Under Dr. Fardin Abdali-Mohammadi and Dr. Abdolhossein Fathi supervision at biomedical data analysis lab, Razi university
  - Available at “<https://appazmoon.ir>”
- 2016 – 2017**      **Secretary of the student’s scientific association**
- Faculty of Engineering, Razi University
- 2015 – 2016**      **Backend Programmer and Sys Admin, SAHPA Project**
- Integrated child health monitoring system
  - Under Dr. Fardin Abdali-Mohammadi and Dr. Abdolhossein Fathi supervision at biomedical data analysis lab, Razi university
- 2013 – Now**      **Founder of Mobbarez Project**
- Sport events management system
  - Under Dr. Fardin Abdali-Mohammadi and Dr. Abdolhossein Fathi supervision at biomedical data analysis lab, Razi university
  - Available at “<http://mobbarez.ir>”

## TEACHING EXPERIENCE

---

- Summer 2018**      **Secure Website Design with Laravel Framework**  
40 hours training course  
Razi CERT group (APA)
- Spring 2016 – Spring 2017**      **Teaching Assistant**, Theory of Languages and Machines at Faculty of Engineering, Razi University, Kermanshah, Iran
- Winter 2015 – Spring 2017**      **Teaching Assistant**, Research and Presentation Method at Faculty of Engineering, Razi University, Kermanshah, Iran
- Spring 2014**      **Teaching Assistant**, Digital Design at Faculty of Engineering, Razi University, Kermanshah, Iran
- Spring 2014**      **Teaching Assistant**, Data Structures at Faculty of Engineering, Razi University, Kermanshah, Iran

## REMARKABLE PROJECTS

---

### Mobbarez Website

Integrated web based system to manager taekwondo sport events including information database, registration, seeding, chart management, scoring, ranking etc.

- Founder and full-stack developer
- Served as mobbarez.ir by order of several Provinces Taekwondo Board including Tehran

### “Engine” Persian Web Search Engine

Integrated Persian web search engine.

- As the final project for “Information Retrieval and Web Search” course
- Including distributed-based crawler, stemmer, tf-idf based index and ranking

### Implemented EfficientDet Network

EfficientDet is a state-of-the-art cnn based network introduced by google’s BrainAI team to solve object detection task.

- As homework project for “intelligent analysis of biomedical images” course
- Implemented from scratch using pytorch

## SELECTED COURSES

---

A+	Data mining
A+	Information retrieval and web search
A+	Machine learning for bioinformatics
A+	Intelligent analysis of biomedical images
A+	Structural bioinformatics

## AWARDS AND HONORS

---

2018	<b>High honor student</b> , graduated with GPA: 18.55/20, Degree: 1 of 30
2016	<b>1<sup>st</sup> Team Rank</b> , Achieving 1 <sup>st</sup> place in Kermanshah startup weekend contest
2015	<b>2<sup>nd</sup> Team Rank</b> , Razi University qualification contest for Iran regional ACM programming contest

## SKILLS

---

### Programing languages

**Skillful with** Java, Python, PHP, JavaScript, MATLAB

**Intermediate with** C/C++/C#, Fortran, R

### Machine Learning Tools

Pytorch, Tensorflow, scikit-learn,  
relevant python libraries e.g. numpy, pandas, seaborn

### Databases

MySQL/MariaDB, MongoDB

### Web Design Technologies

Laravel-framework, Node.js, Vue.js, Socket.io, GraphQL, Webpack, Sass,  
Redis, Elasticsearch, RabbitMQ

### Other

Tex, Android, Docker, Git, ModelSim, Verilog, CloudSim, FogSim,  
PetaSAN, Gephi

## ENGLISH SKILLS

---

Speaking	Advanced
Reading	Advanced
Writing	Intermediate
Listening	Advanced