

## EDUCATION

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- Double Degree

**Amirkabir University of Technology**

B.S. in Computer Engineering, **GPA: 3.8/4.0** (17.33/20.0)

Tehran, Iran

2018–Current

**Amirkabir University of Technology**

B.S in Electrical Engineering, **GPA: 3.7/4.0** (17.15/20.0)

Tehran, Iran

2017–Current

## INTERESTS

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- AI and Machine Learning
- IoT and Connectivity
- Robotics

## WORK EXPERIENCE

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**Iran Telecommunication and Research Center**

Full-Stack Developer

Tehran, Iran

2019 - Current

- Front-End and Back-End developer
- Design Horn Antenna - with C# and ASP.Net Back-End

**Daya-Rahyaf Co.**

AI Algorithm Researcher for Trading

Tehran, Iran

2020 - Current

- Develop an AI-based Algorithm for trading in Iranian-Stock.
- Research on LSTM, CNN, Fundamental and Technical Analysis.

**CarBnB Co.**

Data Miner

Tehran, Iran

2019 - 2020

- Mine Data from some Iranian web sites.
- Save Mined-Data to Pandas data-frame and export it for MySQL and ReThinkDB.

**Tinaio Co.**

Industrial Server Designer for IoT Devices

Tehran, Iran

2018 - 2020

- ESP Arduino Programming with Network Stability
- Develop MQTT protocol for IoT devices with low-power Network.

## TEACHING

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- **TA** at Amirkabir University of Technology Winter 2020  
*Micro Controllers and Processors - Dr. Farbeh*
- **Robotic Teacher** at FIRA Robotic School Summer 2020  
*Image Processing course (Online)*
- **Robotic Teacher** at FIRA Robotic School Spring 2020  
*Python 3 for Robotics course*

## ACTIVITIES / LEADERSHIP

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- Tech-focused Start-Up Activities
- AUTCup Robotic Competitions - 2019.

## SKILLS

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- **Python** AI
  - Tensorflow
  - Keras
  - Pandas
  - PyTorch
- **C#** Desktop
- **HTML5 - CSS3 - JavaScript** Front-End
- **PHP** Back-End
- **MySQL - RethinkDB - MongoDB** Database
- **Java - XML** Mobile
- **Arduino - ARM Keil** Embedded Systems

## SOFTWARES

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- **Altium Designer**
- **Matlab**
- **Wordpress**
- **WireShark**
- **Xampp**

## LANGUAGES

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- **English** Fluent
- **Persian** Native

## PROJECTS

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See full list of projects on ahsefati.ir work section.

- **Home Security Camera with Motion Detection** 2020  
*Full IoT protocols, Server and User Interfaces are implemented.*
- **Skin Disease Detection using Deep Learning** 2020  
*Full Models, Server and Android app will be implemented.*
- **Connection Algorithm for IoT Devices Without Any Hub** 2019  
*Full Algorithm is available*

## HONORS

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- Ranked 480 among more than 100,000 candidates in the entrance exam 2016
- Grant for studying double degree in Electrical and Computer Engineering fields. 2019
- Member of Iran's National Elites Foundation 2019

## ONLINE COURSES

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**Machine Learning [see certificate]** by Andrew NG  
Authorized by Stanford University and offered through Coursera 2020

**Introduction to Internet of Things [see certificate]** by Stanford faculty  
Authorized by Stanford university 2020