AmirHossein **Ahmadi**

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Education

Iran University of Science and Technology (IUST)   *Tehran, Iran*
B.S. in Computer Engineering   *Sep. 2018 - Expected Jan. 2023*
- GPA [up to now via 133 credits]: 3.20 (16.09 / 20)

Salam High School   *Tehran, Iran*
Diploma in Mathematics and Physics Discipline   *2014 - 2018*

Honors & Awards

Iran University of Science and Technology

2020	**15th place**, The ICPC competitions on the Tehran site	*Tehran, Iran*
2020	**Qualified**, The ICPC competitions on the Tehran site as the first team of the university	*Tehran, Iran*
2019	**2nd Place**, Chillin Wars 2019 (AI competition of IUST)	*Tehran, Iran*
2019	**11th place**, The ICPC competitions on the Tehran site	*Tehran, Iran*
2019	**Qualified**, The ICPC competitions on the Tehran site as the first team of the university	*Tehran, Iran*

Salam High School

2018	**top 3%**, The National Entrance Exam for Graduate Schools among near 200,000 participants	*Tehran, Iran*
2017	**3rd Place**, The Iranian National Olympiad in Informatics (INOI)	*Tehran, Iran*
2017	**Qualified**, The 3rd stage of the National Olympiad in Informatics	*Tehran, Iran*
2017	**Qualified**, The 2nd stage of the National Olympiad in Informatics	*Tehran, Iran*
2017	**Qualified**, The first stage of the National Olympiad in Informatics	*Tehran, Iran*
2017	**Qualified**, The first stage of the National Mathematical Olympiad	*Tehran, Iran*
2016	**Qualified**, The first stage of the National Olympiad in Informatics	*Tehran, Iran*
2016	**Qualified**, The first stage of the National Mathematical Olympiad	*Tehran, Iran*

Fields of Interests

Data Structures and Algorithms
Machine Learning/Deep Learning
Natural language processing
Game Development
Image Processing/Computer Vision

Teaching Experience

Deep Learning Teaching Assistant   *Tehran, Iran*
Dr. Marzieh Davoodabadi   *Sep. 2022 - Jan. 2023*

Competitive Programming Teaching Assistant   *Tehran, Iran*
Dr. Sauleh Etemadi   *Sep. 2022 - Jan. 2023*

Software Engineering Mentor   *Tehran, Iran*
Dr. Behrouz Minaei-Bidgoli   *Feb. 2022 - Jun. 2022*

Algorithm Design Teaching Assistant
DR. MARZIEH MALEKIMAJD

Tehran, Iran
Feb. 2021 - Jun. 2021

Analysis and design of systems Mentor
DR. MEHRDAD ASHTIANI

Tehran, Iran
Feb. 2021 - Jun. 2021

Discrete Math Teaching Assistant
DR. REZA ENTEZARI-MALEKI

Tehran, Iran
Feb. 2020 - Jun. 2020

Programming Basics Teaching Assistant
DR. REZA ENTEZARI-MALEKI

Tehran, Iran
Sep. 2019 - Jan. 2020

Industrial Experience

Data Scientist
PINKET

Iran, Tehran
Jul. 2021 - Nov. 2021

- I returned to Pinket as a data scientist and worked there for 5 month. This time my goal was obtaining new experience about data science and applications of artificial intelligence.
- The technology stacks which I used were Python, Pandas, Numpy, Boosting Models, etc.
- My task was developing and maintaining a prediction service related to "Retail Inventories".

Back End Developer
PINKET

Iran, Tehran
Aug. 2020 - Mar. 2021

- I worked at Pinket for 8 month. Actually my goal was obtaining some work experience out of university and getting familiar with development tools.
- The technology stacks which I used were Spring/Spring Boot, Git, Trello, etc.
- My task was developing and maintaining a back-end service related to "Retail Inventories".

Skills

Programming Languages	Proficient at: Python, C, C++, Java - Familiar with: Assembly, C#, Verilog, Matlab, Arduino, StateChart
Framework, Libraries	Django, Django-Rest, Celery, Spring, Spring-Boot, Pandas, Numpy, TensorFlow, Keras, MatplotLib, Scikit-learn
Others	Competitive Programming, Algorithms, Graphs, Docker, Android, PostgreSQL, MongoDB(NoSQL), Proteus, Git
Languages	Persian(Native), English

Academic Projects

MPA Classification - NLP
CORE MEMBER

Iran, Tehran
Feb. 2022 - Jun. 2022

- This model is for movie classification based on MPA rating using plots.

OCR - Deep Learning
CORE MEMBER

Iran, Tehran
Jan. 2022 - Feb. 2022

- This model is for extracting the national ID and card number from the national card and bank card.

Deep Learning Course
SOLO

Iran, Tehran
Sep. 2021 - Feb. 2022

- Various projects, such as filtering images and classification.
- Gained expertise in Pandas, Numpy, TensorFlow, Keras, MatplotLib, Scikit-learn, ...

Computational Intelligence Course
SOLO

Iran, Tehran
Feb. 2021 - Jun. 2021

- Various implementation such as SOFM, MLP, Hopfield Network, ... from scratch.

MHQ - Software Engineering
BACK-END DEVELOPER

Iran, Tehran
Feb. 2021 - Jun. 2021

- This App is a Collaboration Platform for API Development and Automation. it Simplifies each step of building an API, creating scenarios for your APIs and so much more.
- Gained expertise in Docker, Test writing, Celery, Celery-beat, ...

Artificial Intelligence Course

Iran, Tehran

SOLO

Sep. 2020 - Jan. 2021

- Pacman practical Projects of Berkeley University.

TalkZone - System Design & Analysis

Iran, Tehran

BACK-END DEVELOPER

Sep. 2020 - Jan. 2021

- This is a Dating App like Tinder with the difference that instead of photos, users get acquainted with each other by writing "Opening Message" in different categories and engage in conversation.
- Gained expertise in Django, Django-rest, Scrum, ...

Algorithm Design Course

Iran, Tehran

SOLO

Feb. 2020 - Jun. 2020

- Algorithms on Graphs, Algorithms on Strings and Advanced Algorithms and Complexity courses in UCSD Data Structures and Algorithms Specialization

Data Structures Course

Iran, Tehran

SOLO

Sep. 2019 - Jan. 2020

- Algorithmic Toolbox and Data Structures courses in UCSD Data Structures and Algorithms Specialization

Stronghold - Advanced Programming

Iran, Tehran

CORE MEMBER

May. 2019 - Jun. 2019

- Stronghold crusader game with Java, JavaFX and Swing.
- Gained expertise in Java, JavaFx, Socket programming, ...

River Raid - Programming Basics

Iran, Tehran

CORE MEMBER

Jan. 2019 - Jan. 2019

- Implement River Raid with C++ and using SDL library.
- Gained expertise in Object Oriented C++, SDL library, ...

Online Courses

2020	**Coursera**, Data Structures and Algorithms Specialization	*Iran, Tehran*
2020	**Coursera**, Genome Assembly Programming Challenge	*Iran, Tehran*
2020	**Coursera**, Algorithms on Graphs	*Iran, Tehran*
2020	**Coursera**, Advanced Algorithms and Complexity	*Iran, Tehran*
2020	**Coursera**, Data Structures	*Iran, Tehran*
2020	**Coursera**, Algorithms on Strings	*Iran, Tehran*
2020	**Coursera**, Algorithmic Toolbox	*Iran, Tehran*

Selected Course

Natural language processing A / IoT and Embedded Systems A+
Microprocessors and Assembly Language Programming A+ / Deep Learning A+
Analysis and design of systems A+ / Operating Systems A+
Database Design A+ / Algorithm Design A+
Data Structures A+ / Theory of Languages and Automata A+
Programming Basics A+ / Discrete Math A