

ALI

ALIMOHAMMADI

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OBJECTIVE

I am very passionate about learning new things and having some new experiences. Being in collaboration with creative people in a creative environment makes me want to stand out and be more open-minded to solve challenging problems while appreciating the process of doing so.



EDUCATION

B.Sc. in Computer Science

Amirkabir University of Technology (Tehran Polytechnic)

2017 – 2021 (*EXPECTED*)

GPA: **17.65** (out of 20)

B.Sc. Minor in Computer Engineering

Amirkabir University of Technology (Tehran Polytechnic)

2020 – 2021 (*EXPECTED*)

As an Honor Student, I was privileged to study for a second B.Sc. in another field simultaneously.

Diploma of Mathematics and Physics

Allameh Helli 10 High School

2013 – 2017

National Organization for Development of Exceptional Talents (NODET)

Direct admission due to NODET's regulations on middle school GPA.

GPA: **19.60** (out of 20)

Allameh Helli 2 Middle School

2010 – 2013

National Organization for Development of Exceptional Talents (NODET)

Admitted through a competitive two-rounded national entry examination process with the acceptance rate of **0.01%**.

GPA: **20** (out of 20)



EXPERIENCE

Teaching Assistant | Amirkabir University of Technology (Tehran Polytechnic)

FALL SEMESTER 2019

- **Data Structures & Algorithms** – Instructed by Dr. Mohammad Asgaripour
- **Fundamentals of Computer & Programming** – Instructed by Dr. Mohammad Akbari

SPRING SEMESTER 2020

- **Advanced Programming (using C++)** – Instructed by Dr. Mohammad Asgaripour
- **Database** – Instructed by Dr. Amin Gheibi

FALL SEMESTER 2020

- **Design & Analysis of Algorithms** – Instructed by Dr. Mohammad Asgaripour
- **Data Structures & Algorithms** – Instructed by Dr. Mohammad Asgaripour



SKILLS

- C/C++
- Python
- Interactive Python (Jupyter Notebook)
- Android SDK
- Relational Databases (MySQL, PostgreSQL, SQLite)
- RESTful APIs (Retrofit)
- Docker
- Django Web Framework

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|--------------------------------------|-----------------------------------|
| • OSI Network Model | Deep Understanding of All Layers |
| • DVWA, nMap, Wireshark, Cain & Abel | Network Penetration Testing Tools |
| • Cryptography | Symmetric & Asymmetric (PKC) |

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|---|--|
| • Scrum (Agile) | |
| • Trello/Slack/Miro | |
| • Git (GitHub, GitLab) | |
| • Linux (Arch, Ubuntu) | |
| • Java | |
| • Spring Tool Suite (Java Framework) | |
| • Web-Scraping (Data Mining through HTML) | |
| • Google APIs (Maps) | |
| • MATLAB | |
| • Pascal & Delphi | |

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|-----------------------------------|--|
| • Machine Learning (Scikit-Learn) | |
| • Natural Language Processing | |
| • Bash Scripting | |
| • NginX | |
| • Android NDK | |
| • HTML/CSS/JavaScript | |
| • Bootstrap 4 | |
| • macOS | |

HIGHLY
EXPERIENCED

EXPERIENCED

FAMILIAR



CERTIFICATIONS

- | | | |
|---|-------------------------------------|----------|
| • CCNA Routing & Switching | Issuer: NooraNet | Sep 2018 |
| • Network+ (Network Plus) | Issuer: NooraNet | Aug 2018 |
| • Principles & Techniques of Negotiation | Issuer: Amirkabir Technology Center | Feb 2018 |



PROJECTS

</> Hirbod SQL Judge

The World's First Native Database (SQL) Judge/Scoring System implemented in Python/Django Framework & PostgreSQL RDBMS using the latest virtualization and containerization technologies to provide Safety and Scalability followed by efficient use of server resources.

Supports *PostgreSQL* (*MySQL* will be added soon)

Status: First M.V.P. has been released, tested and reviewed by team members; Now being refactored and enhanced for better Persian language support.

</> DigiKala Sales Dataset Analysis

(Biggest Iranian Online Market)
Automated Cleaning and Restructuring of Annual Sales Reports data in order to comply with all **Normal Forms (1 to 5)**. Furthermore, analyzed and reported several *KPIs*.

</> End-To-End Encrypted Cloud Based Messenger

implemented in Python without using *SSL*.

</> Binary Search Tree Command Line Interface

implemented in C++.



AWARDS

- ★ **Scholarship of Excellence** from Iran's National Elites Foundation
- ★ **Honor Student** at Amirkabir University of Technology (Tehran Polytechnic)
- ★ Awarded the **1st** Computer Science Section Project for "World of Music" in "2nd Students' Achievements Exhibition" at Allameh Helli 10 – (*Android Application and server-side Spring Framework*)
- ★ Awarded the **1st** Computer Science Section Project for "Rooznama" in "1st Students' Achievements Exhibition" at Allameh Helli 10 – (*Android Application*)
- ★ Awarded the **1st** Art Section Project for "The Capital" in "18th Students' Achievements Exhibition" at Allameh Helli 2 – (*Photography Project*)



LANGUAGES

- **Persian** (native)
- **English** (full proficiency)

TOEFL iBT®: Total: **105** – R: **26**, L: **29**, S: **28**, W: **22**



EXTRACURRICULAR ACTIVITIES

- Professional Photography
- Graphical Designing (using Adobe Photoshop)
- Blogging for Online Motorsport Magazines such as "*f1iran.com*"
- Motorsport Analysis