





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

HIGHLY
EXPERIENCED

- OSI Network Model
- DVWA, nMap, Wireshark, Cain & Abel
- Cryptography

Deep Understanding of All Layers
Network Penetration Testing Tools
Symmetric & Asymmetric (PKC)

- 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

EXPERIENCED

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

FAMILIAR



CERTIFICATIONS

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