


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 solving challenging problems while appreciating the process of doing so.



EDUCATION

M.Sc. in Computer Science

Simon Fraser University

2022 – 2024 (*EXPECTED*)

B.Sc. in Computer Science (*Honors*)

Amirkabir University of Technology (Tehran Polytechnic)

2017 – 2021

GPA: **17.74** (out of 20)

Thesis: **Applications of Deep Learning in Drug Molecules Generation and Development**

B.Sc. *Minor* in Computer Engineering

Amirkabir University of Technology (Tehran Polytechnic)

2020 – 2022

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

Graduate Research Assistant | Simon Fraser University

FALL SEMESTER 2022

Predicting Chronic Kidney Disease using Real-World Blood Test Results – Supervised by Dr. Uwe Glässer

SUMMER SEMESTER 2022

Symbolic Execution on Rust Programming Language – Supervised by Dr. Steven Ko

Teaching Assistant | Simon Fraser University

SPRING SEMESTER 2023

- **Requirement Engineering** – Instructed by Mr. Dan Ridinger

FALL SEMESTER 2022

- **Data Structures/Programming** – Instructed by Dr. David Mitchell

Researcher | Amirkabir University of Technology (Tehran Polytechnic)

FEBRUARY 2021 – DECEMBER 2021

Applications of Deep Learning in Drug Molecules Generation and Development – Supervised by Dr. Amin Gheibi

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)

- Machine Learning (Scikit-Learn, PyTorch, NetworkX)
- 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

- Natural Language Processing
- R
- Bash Scripting
- NginX
- Android NDK
- HTML/CSS/JavaScript
- Bootstrap 4
- Rust

FAMILIAR



CERTIFICATIONS

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|--|--|----------|
| • 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

★ **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)
- **Spanish** (limited proficiency)



EXTRACURRICULAR ACTIVITIES

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