

# Mohammad Ebrahim Adibzadeh

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## CONTACT INFORMATION

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## RESEARCH INTERESTS

- Software Defined Networking
- Internet of Things
- Operating Systems
- Wireless Sensor Networks

## EDUCATION

**Amirkabir University of Technology**(Tehran Polytechnic), Tehran, Iran

B.Sc., Computer Engineering

Sep. 2018 - Present

GPA: 17.44/20 ( $\approx 3.70/4$ ) — Passed Units: 131/140 credits

**Helli1 High School**, Tehran, Iran

*Diploma, Mathematics and Physics Discipline*

Sep. 2014 - Jun. 2018

National Organization for Development of Exceptional Talents (NODET)

GPA: 19.54/20

## RELATED COURSES

- Computer Networks (20/20)
- Internet of Things (20/20)
- Web Programming (20/20)
- Information Security (17.5/20)
- Data Communications (17.75/20)
- Operating Systems (18.89/20)
- Principals of Cloud Computing (20/20)

## TECHNICAL SKILLS

- **Programming Languages:**  
Go, Python, Java, C#, C
- **Scripting:**  
Bash
- **Web Development:**  
Javascript, HTML, CSS
- **Operating Systems:**  
Linux, Windows, ROS
- **Database:**  
MongoDB, MySQL, SQLite  
Familiar: Elasticsearch, Redis
- **Game Engines:**  
Unity, Corona
- **IoT:**  
NodeMCU ESP8266, Prometheus, Arduino Mega2560, Arduino IDE
- **Tools/Frameworks:**  
Docker, Wireshark, Postman, vBoxManage, GitLab CI/CD  
Familiar: GNS3, Mininet, Apache Hadoop, Jenkins
- **Text-setting:**  
L<sup>A</sup>T<sub>E</sub>X, MS Word

## TEACHING EXPERIENCE

**Teaching Assistant, Amirkabir University of Technology**

Computer Networks, Prof. Masoud Sabaei

Spring 2021, Fall 2021

Computer Networks, Dr. Pooya Hejazi

Spring 2021

Data Structures and Algorithms, Prof. Alireza Bagheri

Fall 2020

Data Structures and Algorithms, Dr. Hamid Hoorfar

Fall 2020

Advanced Programming, Dr. Ehsan Edalat

Spring 2020

## WORK EXPERIENCE

**Digikala, Product Manager**

July 2021 - Present

Coordinated various tech and business projects such as designing a **logistics as a service system**, **dynamic shipping cost engines**, **rewriting legacy code** on service oriented architecture, etc. Digikala is the biggest e-commerce platform in the Middle East.

**Quiz of Kings, Client Side Developer**

July 2019 - April 2021

Migrated legacy code from **Corona engine** to **Unity engine** with a **new system design** in a team. In addition, built a **CI/CD pipeline** on **Gitlab** for Unity builds.

Quiz of Kings is a game studio both working as a publisher and a producer, having the most popular game in Iran.

## NOTABLE PROJECTS

### Smart Office

Jan. 2022

An **IoT** system for managing offices and rooms. For each office, a **local sever** and multiple **NodeMCU boards** exist. The boards are connected to local server using **MQTT** protocol and they authenticate employee's cards for entering rooms, control lights, doors, and etc. Additionally, there is a **public main server** for storing offices' data. Local servers of each office have interactions with the main server using **HTTP** protocol.

### LoadBalancer

July 2021

A script for checking the availability of **docker containers** and dividing tasks between containers. In addition, a **docker image** is created having various functionalities for working with words and numbers like "wordcount", "min/max", "average", and "sort".

### VirtualBox-Manager

Apr. 2021

An **http server** and a **VirtualBox wrapper** for **managing vms remotely** by http requests. Some of the available actions are "clone", "delete", "on/off", "upload file", "transfer file", etc.

### WirePenguin

Jan. 2021

A **CLI packet sniffer** for **capturing packets** both live or offline from .pcap files(The required **layers/protocols** can be specified).

### Gossenger

Nov. 2020

A TCP client-server **chat application** for messaging, sending files, creating groups, etc.

### Arch-Linux ISO Image

Oct. 2018 - Nov. 2018

An **Arch-based ISO image** built for AUT-ICPC competitions of 2019, **having required IDEAs and programming languages** inside it. Arch-Linux was used due to **memory limitations** in university PCs. It was configured to only have what was **purposely required** thus it **allocated less** memory when booted live.

## ADDITIONAL ACTIVITIES

- **Head of management of Gamecraft event** Jan. 2019 - Apr. 2020  
Held Gamecraft event for the first time. It was consisted of **8 talks**, **4 workshops**, and a **contest** at the end. More than **500 contestants** participated in the event.
- **Member of technical team of AUT-ICPC event** Nov. 2019, Nov. 2020  
Prepared an **ISO image** and **PXE boot** for onsite computers. In addition, provided **technical support** during the contest in case of computer crashes, errors, etc.

## HONORS AND AWARDS

- Ranked in **top 0.002%** among all students in university entrance exam (**181** between approximately **145000** applicants) in Math. and Physics., Iran, 2018
- Participated in the **Global Game Jam** 2020 competitions as a member of a 6 persons team developing "**Repair Ship**" game using **Unity** and **C#**.

## CERTIFICATIONS

### Amirkabir Artificial Intelligence Summer Summit

Artificial Intelligence in Medicine, Applications and Limitations

[[certificate](#)]

Dive into Deep Learning

[[certificate](#)]

Speak Recognition Systems

[[certificate](#)]

## LANGUAGES

**Persian:** Native

**English:** TOEFL Mock Test 102/120