Mohammad Ebrahim Adibzadeh
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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
- **Tools/Frameworks:**
  Docker, Wireshark, Postman, vBoxManage, GitLab CI/CD
  Familiar: GNS3, Mininet, Apache Hadoop, Jenkins
- **Game Engines:**
  Unity, Corona
- **Text-setting:**
  LaTeX, 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

CERTIFICATIONS

- **Artifical Intelligence in Medicine, Applications and Limitations**
  Amirkabir Artificial Intelligence Summer Summit [certificate]
- **Dive into Deep Learning**
  Amirkabir Artificial Intelligence Summer Summit [certificate]
- **Speak Recognition Systems**
  Amirkabir Artificial Intelligence Summer Summit [certificate]

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

ROS GMapping, VFH   June 2022

A project in **ROS** which is consisted of 2 parts. First, creating a map using robot's **Lidar and Gmapping**. Second, heading towards a point using **VFH(Vector Field Histogram)** method for obstacle avoidance and finding the way.

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.

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#**.

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.

LANGUAGES

Persian: Native
English: TOEFL Mock Test 102/120