Amirhossein Alizad

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Education

College of Electrical and Computer Engineering, University of Tehran

B.Sc. in Computer Engineering (Software Engineering Major)

SFP 2018 - PRESENT

- GPA: 17.03/20 3.34/4 (Last Two Years: 18.63/20 3.95/4) Faculty Average: 15.1/20, Major Average: 15.97/20
- Related Courses: Data Structures and Algorithms(18.5/20) Design and Analysis of Algorithms(19.5/20)
 - Computer Architecture (20/20) Operating Systems (19.5/20) Artificial Intelligence (19.5/20) Database Design (19.45/20)
 - Formal Languages and Automata Theory(20/20) Compilers and Programming Languages(18.75/20) Computer Networks(17.9/20)
 - Software Engineering (19/20) Formal Methods in Software Engineering (17.7/20) Software Testing (19.84/20)
 - Internet Engineering(17.1/20) Parallel Programming(17.7/20)

Shahid Beheshty Highschool

Rey, Tehran, Iran

SEP 2014 - JULY 2018

DIPLOMA IN MATHEMATICS AND PHYSICS

• As a part of National Organization for Development of Exceptional Talents (NODET)

Honors and Awards _____

2018 Ranked Top 0.15%, in Iranian University Entrance Exam with more than 140,000 participants

Skills _____

- **Programming** Advanced: java, C++
 - Intermediate: C, SQL, python, VerilogHDL
 - Beginner: Antlr, HTML, R, Ansible
 - Familiar: Assembly, Go, PHP

Technology

- Git
- Maven
- Jupyter Notebook & Google Colab
- FrameWorks: Spring, JUnit unit testing framework
- Databases: MySQL, PostgreSQL, Hazelcast
- Operating Systems: Windows, Linux(Ubuntu)
- Python Libraries: Keras, seaborn, matlotlib, pandas, numpy, sklearn

Software Engineering • Familiar with different object-oriented design patterns, software development methodologies such as Agile and DevOps, and software testing methodologies.

Research Interests

- Graph Algorithms
- Database Systems
- Computer Vision
- Software Testing

- programming languages and methodology
- · Network and System Security
- Speech Recognition and Processing & natural language processing
- Data Mining and Data Retrieval

Research Experience _____

Social Network Graph

University of Tehran

• Under supervision of Dr. Behnam Bahrak

• Finding the social network of a persion in social media, using network theory and graph theory.

SEP 2021 - NOV 2021

Hate Speech Detection

University of Tehran

• Under supervision of Dr. Azadeh Shakery

- JULY 2022 PRESENT
- Detecting whether a given text contains a hate speech towards its contact using a predefined data set.

• Implemented using RNN and LSTM.

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Teaching Experience

Teaching Assistant

University of Tehran

Formal Languages and Automata Theory

Design and Analysis of Algorithms Data Structures and Algorithms

Introduction to Computing Systems and Programming

Supervising Teaching Assistant

University of Tehran

Data Structures and Algorithms

Introduction to Computing Systems and Programming SEP 2021 - FEB 2022

Coordinator Teaching Assistant

University of Tehran

Software Testing

Head Teaching Assistant Tehran, Iran

University of Tehran

Data Structures and Algorithms SEP 2022 - FEB 2023

Notable Academic Projects

Price Class Prediction University of Tehran

Dec. 2020 • Operating Systems Course Project

· Implemented using Pthread library to run a serial and parallel (using more than one thread) Prediction program and avoiding shared memory problems using mutex locks.

• Implemented in C++.

Snakes and Seeds

Oct. 2020 • Artificial Intelligence Course Project

• Finding all the seeds in the map, in the shortest time possible, using search algorithms like IDS, A*, ...

Implemented in python

Comments University of Tehran

Nov. 2020

• Artificial Intelligence Course Project

· Predicting whether a given comment as input is recommending the product or not, using Naive Bayes Classifier and Hazm library in python

· Implemented in python

House Price Prediction University of Tehran

• Artificial Intelligence Course Project

Dec. 2020 • Predicting and finding the price of a house with given qualities, using SKLearn and seaborn libraries

• Implemented in python

Lung Decease Detection

• Artificial Intelligence Course Project

• Training neural networks using different activation functions and other different features using keras library to detect whether a picture of a lung given to the network, has pneumonia, covid-19 or is normal.

· Implemented in python

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FTP Client Server

University of Tehran

• Computer Networks Course Project

- Implementing simple FTP Client and server using sockets and multithreading.
- In contribution with Parsa Kutzari.

• Implemented in C++

Enroll Assist Radin Bourse

• Summer Internship Project

- Implementing Enroll Assist Application to simplify enrollment process for students.
- In contribution with Sarina Hamedani and Mehrnaz Shams Abadi.
- Implemented in java using Spring frameWork

Work Experience _____

Radin BourseTehran, Iran

SUMMER INTERNSHIP, SOFTWARE ENGINEER

JULY 2021 - SEP 2021

Apr. 2021

July 2021

- 8-Weeks Internship.
- Designed and implemented a web application.
- Application to assist enrollment before each semester for students.
- Implemented in java using Spring frameWork.

Radin Bourse Tehran, Iran

PART TIME, SOFTWARE ENGINNER

SEP 2021 - PRESENT

- Designing and developing an ultra-low latency trading platform.
- Software Engineer and Back-end Developer.
- Infrastructure specialist in deployment.

Languages _

Persian Native

English Professional working proficiency

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