Erfan **Alimohammadi**

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Education

Shahid Beheshti University

Tehran, Iran

B.Sc. IN COMPUTER ENGINEERING

2015 - present

• Related courses: Introduction to Programming (20/20), Advanced Programming (20/20), Discrete Mathematics (19.75/20), Data Structures (20/20), Design and Analysis of Algorithms (19/20)

Allameh Helli High School

Tehran, Iran

DIPLOMA IN MATHEMATICS AND PHYSICS DISCIPLINE

2011 - 2015

• Affiliated with the National Organization for the Development of Exceptional Talents (NODET)

Professional Experience

Balad Maps Tehran, Iran

SOFTWARE ENGINEER Fall 2019 - present

- A member of Maps Data Team.
- Handling some tasks related to basic data science.

Cafe Bazaar Tehran, Iran

SOFTWARE ENGINEER Summer 2016 - Spring 2018

- · Cafe Bazaar is the most popular and successful Android application store in Iran, with a user-base of near 50 million people.
- A member of App Discovery Team and Inline Apps Team.
- A software engineer interviewer, to help Cafe Bazaar in hiring new people.
- · Developing an admin panel for the executive team of Cafe Bazaar, using Python Django, HTML, CSS and Javascript.
- Android Programming for developing a platform for developers to create some Android apps which there is no installation needed for them.

Teaching Experience

TEACHING ASSISTANTSHIP

Design and Analysis of Algorithms, Dr. Ghavamizadeh, Held some TA sessions.

Spring '18, Fall '18, Spring '19

Determined and graded some computer assignments.

Data Structures, Dr. Abin, Held TA sessions. Determined and graded the course projects.

Fall '17, Spring '18, Fall '18, Spring '19

Statistics and Probabilities, <u>Dr. Safaei</u>, Data Structures, Dr. Ebrahimi Moghaddam, Fall '18 Fall '18

Advanced Programming, Dr. Vahidi-Asl, Held some TA sessions. Grade a computer

assignment.

Spring '17

Discrete Mathematics, Dr. Safaei, Helped handling some TA sessions.

Spring '17

Discrete Mathematics, Dr. Abdoos, Helped handling some TA sessions.

Spring '17

Introduction to Programming, Dr. Abdoos, Held some TA sessions (with extra contents

Fall '16

about Linux OS). Determined a computer assignment.

OTHER

preparation classes

Beginners" workshops

University of Tehran ACM Chapter, Organizing the algorithm design and ACM-ICPC

Fall 2018

Shahid Beheshti University, Organizing "Python for Beginners" and "Debugging for

2017

<u>Allameh Helli High School</u>, Teaching Data Structures and Algorithm Design (preparing students for INOI)

Summer 2015

FEBRUARY 26, 2020 ERFAN ALIMOHAMMADI · RÉSUMÉ

Honors and Awards

ACM-ICPC AND IOI RELATED

2017	Silver Medal, ACM-ICPC Asia Tehran Regional Contest	Tehran, Iran
2017	56th Rank , ACM-ICPC World Finals (from among 133 teams chosen from a field of 46,381 contestants)	South Dakota, USA
2016	1st Rank, ACM-ICPC Asia Lahore Regional Contest	Lahore, Pakistan
2015	Finalist, International Bayan Programming Contest	Tehran, Iran
2014	Semi-finalist , 24th Iranian Olympiad in Informatics (selected as top 70 students among 10000 participants)	Tehran, Iran
2014	Semi-finalist, 24th Iranian Olympiad in Mathematics	Tehran, Iran
2011	1st Rank , 6th HelliNet Contest (nationwide programming competition for high school students)	Tehran, Iran
PROJEC	TS	
2014	Selected Project of Tehran Province, Khwarizmi Youth Festival (for "Digital Signature" project)	Tehran, Iran
2013	The Best Project Award, Allame Helli High School Seminar on Science and Technology (for an AVR	Tohran Iran
	programmed project, called "Intelligent Bumper")	Tehran, Iran
2011	The Best Project Award , 8th NODET Young Researchers Festival (for "Persian Letters OCR" project)	Tehran, Iran
2011	The Second Best Project Award, 8th NODET Young Researchers Festival (for "Persian CAPTCHA" project)	Tehran, Iran
OTHER		
2019	80th Rank, Huawei MNIST Challenge (onsite neural networks competition among 124 universities)	Porto, Portugal
2018	Completed All Levels , Google Foobar (a secret challenge by Google, to examine your Java or Python skills)	
2015	1st Rank, Shahid Beheshti University Al Challenge Competition	Tehran, Iran
2015	Top 1% , The Nationwide Entrance Exam of Iranian Universities (among more than 180,000 contestants)	Tehran, Iran

Skills

Technical (proficient):	Pascal, Delphi, C/C++, Python, Java, Git, Linux (Ubuntu), Raspberry Pi, Adobe Photoshop
Technical (familiar):	Django, Databases, Docker, Android Studio, Microsoft Q#, Matlab/Octave, HTML and CSS
Theoretical (proficient):	Design of Algorithms, Data Structures, Graph Theory and Computational Geometry fields
Theoretical (familiar):	Machine Learning, Deep Learning, Image Processing and Computer Vision fields
Languages:	Persian (mothertongue), English (upper-intermediate)

Notable Projects

Commit Type Detection 2020

• Classifying Git commits with deep learning (using PyTorch and scikit-learn)

Persian Digits Recognition

• Recognition of Farsi (Arabic) Scanned Digits (using PyTorch and OpenCV)

Map Coloring 2019

2019

• Backtracking on graphs for coloring a map with four colors (using NumPy, Matplotlib and OpenCV)

Map Merging 2019

• Merge two maps of a city by modeling them to graphs and polygons (using NetworkX)

Persian OCR 2010

· Offline optical character recognition of Farsi letters, using neural networks and feature extraction (with no special libraries)

Other Activities ___

Presentations

· Guest Speaker at the 21th ACM-ICPC Asia Tehran Regional Contest, presenting Map Merging as a computational geometric problem

Problemsetting of Algorithmic Contests

• CodeChef March Cook-Off 2019, HackerEarth March Circuits 2019, CodeChef March LunchTime 2019, Codeforces Round #261

Creating Some Fun Electronic/Robotic Projects

• Using Raspberry Pi

Photography and Graphical Design

• Using DSLR camera and Adobe Photoshop