

Erfan Alimohammadi

Faculty of Computer Engineering, Shahid Beheshti University, Daneshjou Boulevard, Velenjak, Tehran, Iran

☎ (+98) 919-30-39-381 | ✉ erfan.aa@gmail.com | 🏠 palindrome.ir | 📷 [erfan.aa](#) | 🌐 [erfan-alimohammadi](#) | 📄 [erfan-alimohammadi](#) | 🐦 [erfanafre](#)

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, Dr. Safaei,

Fall '18

Data Structures, Dr. Ebrahimi Moghaddam,

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 about Linux OS). Determined a computer assignment.

Fall '16

OTHER

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

Fall 2018

Shahid Beheshti University, Organizing “Python for Beginners” and “Debugging for Beginners” workshops

2017

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

Summer 2015

Honors and Awards

ACM-ICPC AND IOI RELATED

2017	Silver Medal , ACM-ICPC Asia Tehran Regional Contest	<i>Tehran, Iran</i>
2017	56th Rank , ACM-ICPC World Finals (from among 133 teams chosen from a field of 46,381 contestants)	<i>South Dakota, USA</i>
2016	1st Rank , ACM-ICPC Asia Lahore Regional Contest	<i>Lahore, Pakistan</i>
2015	Finalist , International Bayan Programming Contest	<i>Tehran, Iran</i>
2014	Semi-finalist , 24th Iranian Olympiad in Informatics (selected as top 70 students among 10000 participants)	<i>Tehran, Iran</i>
2014	Semi-finalist , 24th Iranian Olympiad in Mathematics	<i>Tehran, Iran</i>
2011	1st Rank , 6th HelliNet Contest (nationwide programming competition for high school students)	<i>Tehran, Iran</i>

PROJECTS

2014	Selected Project of Tehran Province , Khwarizmi Youth Festival (for “Digital Signature“ project)	<i>Tehran, Iran</i>
2013	The Best Project Award , Allame Helli High School Seminar on Science and Technology (for an AVR programmed project, called “Intelligent Bumper“)	<i>Tehran, Iran</i>
2011	The Best Project Award , 8th NODET Young Researchers Festival (for “Persian Letters OCR“ project)	<i>Tehran, Iran</i>
2011	The Second Best Project Award , 8th NODET Young Researchers Festival (for “Persian CAPTCHA“ project)	<i>Tehran, Iran</i>

OTHER

2019	80th Rank , Huawei Neural Network Challenge (an onsite competition among 124 selected universities)	<i>Porto, Portugal</i>
2018	Completed All Levels , Google Foobar (a secret challenge by Google, to examine your Java or Python skills)	
2015	1st Rank , Shahid Beheshti University AI Challenge Competition	<i>Tehran, Iran</i>
2015	Top 1% , The Nationwide Entrance Exam of Iranian Universities (among more than 180,000 contestants)	<i>Tehran, Iran</i>

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	2019
• Recognition of Farsi (Arabic) Scanned Digits (using PyTorch and OpenCV)	
Map Coloring	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