

# 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 \(NODET\)](https://www.nodet.ir/)

## 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.

### Sabz Biomedicals

Tehran, Iran

SOFTWARE DEVELOPER AND UI/UX DESIGNER

Summer 2015 - Summer 2016

- Using Embarcadero RAD Studio Delphi IDE for developing softwares which are used in biological laboratories equipments and have touch screens.
- Using Canon cameras API and processing images for the recognition of captured DNA bands.

## 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

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## ACM-ICPC AND IOI RELATED

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

## PROJECTS

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

## OTHER

2018	<b>Completed All Levels</b> , Google Foobar (a secret challenge by Google, to examine your Java or Python skills)	
2015	<b>1st Rank</b> , <a href="#">Shahid Beheshti University AI Challenge Competition</a>	<i>Tehran, Iran</i>
2015	<b>Top 1%</b> , The Nationwide Entrance Exam of Iranian Universities (among more than 180,000 contestants)	<i>Tehran, Iran</i>

# Skills

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<b>Technical (proficient):</b>	Pascal, Delphi, C/C++, Python, Java, Git, Linux (Ubuntu), Raspberry Pi, Adobe Photoshop
<b>Technical (familiar):</b>	Django, Databases, Docker, Android Studio, Microsoft Q#, Matlab/Octave, HTML and CSS
<b>Theoretical:</b>	Experienced in Design of Algorithms, Data Structures and Discrete Mathematical fields
<b>Languages:</b>	Persian (mothertongue), English (upper-intermediate)

# Notable Projects

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<b><u>Tweeterify</u></b>	<i>2018</i>
• A Twitter bot which recommends songs from Spotify top charts to Twitter users.	
<b><u>Process Migration</u></b>	<i>2018</i>
• Added process migration to <a href="#">xv6 OS</a> (for Operating Systems course).	
<b><u>Messenger</u></b>	<i>2016</i>
• Designed a minimal chat platform using JavaFX (for Advanced Programming course).	
<b><u>www.30minar.ir</u></b>	<i>2011</i>
• Designed a platform for internal usage of <a href="#">Allame Helli High School</a> , used for managing tasks related to students and teachers. Implemented with PHP, HTML, CSS and SQL.	
<b><u>Reinforcement Learning Project</u></b>	<i>2011</i>
• A simulated soccer player in Pascal 2D graphics environment, learning how to dribble a ball to increase chance of making a goal.	

# Other Activities

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<b><u>Presentations</u></b>
• <a href="#">Guest Speaker at the 21th ACM-ICPC Asia Tehran Regional Contest</a> , presenting Map Merging as a computational geometric problem
<b><u>Problemsetting of Algorithmic Contests</u></b>
• <a href="#">CodeChef March Cook-Off 2019</a> , <a href="#">HackerEarth March Circuits 2019</a> , <a href="#">CodeChef March LunchTime 2019</a> , <a href="#">Codeforces Round #261</a>
<b><u>Creating Some Fun Electronic/Robotic Projects</u></b>
• Using Raspberry Pi
<b><u>Photography and Graphical Design</u></b>
• Using DSLR camera and Adobe Photoshop