

# 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

### Cafe Bazaar

Tehran, Iran

BACK-END DEVELOPER AND ANDROID DEVELOPER

2017 - 2018

- Was a software engineer interviewer, to help Cafe Bazaar in hiring new people.
- Was a member of Inline Apps Team.
- Helped in developing a platform for developers to create some Android apps which there is no installation needed for them.
- Designed UI/UX of some of inline apps platform components and implemented them by Android programming.

### Cafe Bazaar

Tehran, Iran

SOFTWARE DEVELOPER

2016 - 2017

- Cafe Bazaar is the most popular and successful Android application store in Iran, with more than 35 million users.
- Was a member of App Discovery Team.
- Developed an admin panel for the executive team of Cafe Bazaar, using Python Django, HTML, CSS and Javascript.

### Sabz Biomedicals

Tehran, Iran

SOFTWARE DEVELOPER AND UI/UX DESIGNER

2015 - 2016

- Used Embarcadero RAD Studio Delphi IDE for developing softwares which are used in biological laboratories equipments and have touch screens.
- Used Canon cameras API for imaging of nucleic acid and protein.
- Processing images for the recognition of captured DNA bands.

## Teaching Experience

### TEACHING ASSISTANTSHIP

**Statistics and Probabilities, Dr. Safaei,**

Fall 2018

**Data Structures, Dr. Ebrahimi Moghaddam,**

Fall 2018

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

Determined and graded a computer assignment.

Spring 2018, Fall 2018

**Data Structures, Dr. Abin,** Held TA sessions. Determined and graded mini project and final project.

Fall 2017, Spring 2018, Fall 2018

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

Spring 2017

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

Spring 2017

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

Spring 2017

**Introduction to Programming, Dr. Abdoos,** Held some TA sessions. Determined a computer assignment.

Fall 2016

### OTHER

**Shahid Beheshti University,** Organizing ACM-ICPC preparation classes for Shahid Beheshti University students

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

## PROJECTS

2014	<b>Selected Project of Tehran Province</b> , Khwarizmi Youth Festival (for “Digital Signature“ project)	<i>Tehran, Iran</i>
2013	<b>The Best Project Award</b> , Allame Helli High School Seminar on Science and Technology (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> , Shahid Beheshti University AI Challenge Competition	<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 (fluent), Arabic (basic)

# Notable Projects

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<b>Tweeterify</b>	2018
• A Twitter bot which recommends songs from Spotify top charts to Twitter users.	
<b>Process Migration</b>	2018
• Added process migration to xv6 OS (for Operating Systems course).	
<b>Messenger</b>	2016
• Designed a minimal chat platform using JavaFX (for Advanced Programming course).	
<b>www.30minar.ir</b>	2011
• Designed a platform for internal usage of Allame Helli High School, used for managing tasks related to students and teachers. Implemented with PHP, HTML, CSS and SQL.	
<b>Reinforcement Learning Project</b>	2011
• 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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## Problemsetting of Algorithmic Contests

- Codeforces Round #261 (more than 4700 programmers participated in the contest)
- Coordinating of some local contests for Shahid Beheshti University

## Creating Some Fun Electronic/Robotic Projects

- Using Raspberry Pi

## Blogging

- [www.palindrome.ir](http://www.palindrome.ir): my personal blog
- [www.acm.sbu.ac.ir](http://www.acm.sbu.ac.ir): creator and administrator of Shahid Beheshti University ACM-ICPC blog

## Photography and Graphical Design

- Using DSLR camera and Adobe Photoshop