

# 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 \(NODET\)](http://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  |