

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

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

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, Matlab/Octave, HTML and CSS
Theoretical:	Experienced in Design of Algorithms, Data Structures and Discrete Mathematical fields
Languages:	Persian (mothertongue), English (fluent), Arabic (basic)

Notable Projects

Tweeterify	2018
• A Twitter bot which recommends songs from Spotify top charts to Twitter users.	
Process Migration	2018
• Added process migration to xv6 OS (for Operating Systems course).	
Messenger	2016
• Designed a minimal chat platform using JavaFX (for Advanced Programming course).	
www.30minar.ir	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.	
Reinforcement Learning Project	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

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: my personal blog
- 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