

# Amir HAGHIGHATI Maleki

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## PERSONAL DATA

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DATE & PLACE OF BIRTH: August 13, 1996 | Tabriz, Iran  
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## EDUCATION

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CURRENT 2014	Undergraduate Degree in COMPUTER ENGINEERING <b>Amirkabir University of Technology (Tehran Polytechnic)</b> , Tehran Thesis: <i>"Implementing a web app for performing usability tests using a crowdsourced solution"</i>   Advisor: <a href="#">Dr. Ahmad ABDOLLAHZADEH BARFOUROSH</a> GPA (specialization courses): 19.00/20.00 (3.80/4.00) <a href="#">Detailed List of Scores and courseworks</a> CGPA (overall): 16.65/20.00 (3.33/4.00)
2014 2010	High School Diploma in MATH & PHYSICS <b>National Organization for Development of Exceptional Talents (NODET)</b> , Maragheh (Shahid Beheshti Highschool) GPA: 19.0/20.0 (3.8/4.0)

## RESEARCH INTERESTS

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- Crowdsourcing and Crowdsourced Problem Solving
- User-centered Design and User-driven Development
- Virtual and Augmented Reality Technologies
- Information Visualization
- Software, UI/UX and Web Usability Testing
- Progressive Web Applications
- Cross-Platform Applications

## EXPERIENCE

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JAN 2018 SEP 2017	Teaching Assistant, Amirkabir University of Technology <i>Dr. Dehghan - Data Structures and Algorithms course</i> Responsibilities include providing the students with appropriate home-works and projects and evaluating their performance during the course.
SEP 2017 FEB 2017	Research Intern at <a href="#">FANDOGH TEAM</a> , Tehran <i>Web Application Research Intern</i> Responsibilities include providing high-tech solutions for enterprise applications and infrastructure-related problems like scaling up, minimizing delay, access-control etc., in order to maintain and produce user friendly <a href="#">Progressive Web Applications</a> and analyzing multiple organizational needs and research about SPAs, progressive web apps and their performance ( <i>Tikio - an Event Organizing Platform</i> ).
JAN 2017 APR 2016	Developer at <a href="#">EMAARAT SERVICES</a> , Tehran <i>Web App Developer</i> Responsibilities included developing Emaarat's core web application using <i>Laravel</i> framework, API and database systems and maintaining the production environments with virtualization solutions like <i>Docker Containers</i> ( <i>Emaarat Platform</i> ).
JAN 2016 SEP 2015	Freelance Developer Please visit my github page for more details ( <a href="https://github.com/aneuage">https://github.com/aneuage</a> ).
2015 2012	Volunteer Media Translator at <b>BARANMOVIE ONLINE TRANSLATING TEAM</b> <i>Team Organizer and Translator</i>

## HONORS AND AWARDS

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- *Ranked top 0.4%* in the National Entrance Exam among all Iranian Students in Mathematics & Physics (2014)
- *Ranked top 0.7%* in the National Entrance Exam among all Iranian Students in Foreign Languages (2014)
- **Executive director and Chief of Staff** of the 16<sup>th</sup> Amirkabir International Collegiate Programming Contest, **a member of the executive committee** at the 15<sup>th</sup> AUT ICPC (both, held jointly with TUM, KTH, Jagellonian and EPFL universities), **Member of the executive and organizing committee** of the 7<sup>th</sup> (2015), the 8<sup>th</sup> (2016), and the 9<sup>th</sup> (2017) AUT Linux Festival, **Director of Informatics** during the 11<sup>th</sup> round of *SSC* at *CEIT Department* of *AUT* (**Elected by the students** of the department) and **Tech-and-executive Advisor** in the 12<sup>th</sup> SSC of CEIT at AUT (2017) as a part of of Student Scientific Chapter (SSC) (2014 - 2017)
- **Volunteer Assistant** at CEIT Department Guild Council (Students Association), Tehran Polytechnic (2014)
- Awarded **The Best Ritual and Folklore Performance Award** in the 18<sup>th</sup> *Traditional and Ritual Theater Festival* (Tehran, Aug. 2017), **First Prize of Folklore Dances** in the *International Folklore, Dance and Music Festival and Competition - Vienna Stars, Prague Stars 2017* (Vienna and Prague, Nov. 2017), as a member of *Aylan Azerbaijani Folk Dance Group*

## SKILLS AND ABILITIES

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- Programming Languages: MATLAB, Java, PHP, C, C++, Python, Bash, Javascript
- Software Engineering Skills, Frameworks and Technologies:
  - Progressive Web Applications, with Google's guidelines using Laravel and Vue.js frameworks
  - Developing test scenarios for different types of software testing (whitebox, blackbox, usability, etc.,)
  - Report and document generation with L<sup>A</sup>T<sub>E</sub>X, Microsoft Office tools and other web-based tools
  - CVS tools including Github, Gitlab, Gogs etc. and collaboration services like waffle.io and slack
  - Container based virtualization, Docker Containers and deploying applications with Docker Compose
  - Bootstrap, Material Design Guidelines and other responsive web application U.I. design tools/techniques
  - MongoDB (Document-based NOSQL DB), MySQL, HSQLDB and usage in multiple applications
- Physical and Artistic:
  - Mountaineering: Active mountain trekker and camping enthusiastic
  - Choreography and Dancing: A member of *Aylan Azerbaijani Folk Dance Group*

## LANGUAGES

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ENGLISH:	Professional Working Proficiency TOEFL iBT Score: 98 - <i>Reading: 25, Listening: 22, Speaking: 24, Writing: 27</i>
PERSIAN:	Bilingual Proficiency
AZERBAIJANI:	Native Proficiency

## REFERENCES

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Available upon request.

# Undergraduate Degree in COMPUTER ENGINEERING

## Selected Courses

TITLE	MARK (OF 20.00)	CREDIT UNITS
Principles of IT Strategic Management and Planning	19.00	3
Enterprise Application Integration	20.00	3
Information Technology Internship	19.75	1
IT Project Management	18.50	3
CE Labs (DB, Microprocessors, Networks, OS, Logic D., General)	20.00	6
Algorithm Design	18.13	3
Computer Architecture	18.52	3
Technical English	18.50	2
Data Structures	19.60	3
Advanced Computer Programming	20.00	3
English for the Students of Engineering	18.10	3
Principles of Computer Programming	20.00	3
Computer Networks	17.50	3
Research Methods and Technical Presentation	17.00	2
Principles of Compiler Design	17.03	3
Engineering Statistics	17.20	3

**Related coursework:** A simple paint program, Snake game, Tetris game, virtualizing a 3D cube using graphic tools in C, A bilingual text editor using C language, as the projects of first semester (Fall 2014). A simple SQL program, Ladder game as the mid-term project of Advanced Programming course, A simple chatting over network program, design of a simple web-service and a *Stronghold*-like game having all the main features of the game including network playing using Java as the projects of second semester, co-working on a project and usage of CVSs (e.g. github), Graph implementation with different traversing algorithms as the final project of *Data Structures and Algorithms* course (2015). Implementing the method provided in “Introducing a distributed algorithm for balanced graph partitioning called JA-BE-JA (F. Rahimian et al, 2014)” as the research project of *Algorithm Design* course, Developed an enterprise ERD for a health center as the final project of *Database Design* course (2016), Developed and designed analytic diagrams for a smart greenhouse environment using methodologies introduced in *System Analysis and Design (Software Engineering I)* course, Designed and simulated a base computer (a CPU with a cache and a main memory) using VHDL language as the project of *Computer Architecture* course (2016), Developed a limited series of OS features in *MIT's xv6* OS, Developed a method for compressing images and face recognition in MATLAB using *Singular-Value Decomposition (SVD) approach* as the course project of *Engineering Mathematics* course (2017). Implemented and tested multiple problem solving algorithms using *Informed and Uninformed*, *Local* and *Adversarial* search approaches and providing solutions for *Constraint Satisfaction*, *Planning* and *Inference in Logic* problems as the course work for *Artificial Intelligence* course(2017). Designing and implementing multiple kinds of grammar parsers and lexers using YACC and JFLEX tools as the final project of compiler design(2018). **Thesis is expected to be in usability testing and crowdsourcing**