Hamed Saleh

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Research Interests

- Algorithmic Game Theory
- Design and Analysis of Algorithms
- Graph Theory
- Machine Learning

Education

Sharif University of Technology, Tehran, Iran. 2012 - present
B.S. in Computer Engineering, **GPA: 17.24/20**
Relevant Courses:

- Randomized Algorithms (Grad. Course): 20/20
- Algorithms for Massive Data Sets (Grad. Course): 19/20
- Design and Analysis of Algorithms: 20/20
- Data Structures and Algorithms: 20/20

Allameh Helli High School, Tehran, Iran. 2008 - 2012
Diploma in Mathematics and Physics Discipline
Affiliated with the National Organization for Development of Exceptional Talents. (NODET)

Honors and Awards

ACM-ICPC, International Collegiate Programming Contest by ACM.

- **15th Team** in the 39th ACM-ICPC World Finals. 2015
  Marrakech, Morocco
- **27th Team** in the 37th ACM-ICPC World Finals. 2013
  St. Petersburg, Russia
- **1st, 2nd, 1st Team** in Regional Contests of ACM-ICPC West Asia Region, Tehran Site, respectively in 2012, 2013 and 2014.

Gold Medal in the 20th Iranian National Olympiad in Informatics. 2010

Awarded as **Outstanding Student** by the university president. 2013

Recipient of the **Grant for Undergraduate Studies** from the Iran's National Elites Foundation, for outstanding academic success, 2012 - present.

Teaching Experience

Teaching Assistant 2014 - Present
Sharif University of Technology

- Compiler Design, M. H. Foroughmand-Araabi, Spring 2016
- Design and Analysis of Algorithms, M. Abam, Fall 2015
- Design and Analysis of Algorithms, H. Zarrabi-Zadeh, Fall 2015
- Object Oriented Design, S. Foroughi, Fall 2015
- Data Structures and Algorithms, M. Abam, Spring 2014

IOI and ACM-ICPC related

- Lecturer at INOI[1] Summer Camp   2014
  Young Scholars Club
  Teaching data structures and algorithms to selected students advanced to the
  INOI Summer camp, the preliminary phase of trainings of students who will
  finally represent Iran in International Olympiad in Informatics.

- Guest Lecturer of Extra-Curricular Course   2015
  University of Tehran
  Teaching advanced algorithms and data structures to talented students from various universities, who are training for ACM-ICPC regional contests.

- Algorithms and C++ Programming Instructor   2011 - 2014
  Allameh Helli High School and several other high schools

Work Experience

Professional Software Engineer

- Software Engineer at **Cafe Bazaar Co.**   2016
  Worked on the Search project of Cafe Bazaar, an Iranian Android marketplace
  with 30 million users, dealing with complicated Information Retrieval, Natural
  Language Processing, Artificial Intelligence, and Big Data challenges.

- Software Engineer at **Lyan Co.**   2015
  Experienced Web Application Developing in a friendly team, implementing the
  Scrum Methodology. Also responsible for designing and managing Infrastructure,
  in order to meet Continuous Integration requirements.

- Android Developer Intern at **Rahnema Co.**   2013
  Participant in Rahnema Co. Android Development Camp.
  Worked with a partner to develop a complete Android Mobile Application with
  business support of Rahnema Co.

Open Source Software Developer

- **HelliJudge**, Co-Founded with Mahrud Sayrafi.   2011
  A programming competition judge web software with focus on security for ACM-ICPC and IOI.

Technical Skills

- Excellent theoretical and practical background in Data Structures, Algorithm
  Design and Graph Theory, as demonstrated by success in ACM-ICPC competitions.

- **Operating Systems**: Comfortable with Mac, Linux and Windows.

- **Typesetting**: Proficient in LaTeX, familiar with Microsoft Office.

- **Programming Languages**: Expert in C/C++; proficient in Python, Java,
  Bash, and MATLAB; familiar with Javascript, PHP, and many other languages.

- **Web Technologies**: Comfortable with technologies HTML5, CSS3, jQuery,
  Django Framework, PostgreSQL, and MongoDB.

- **DevOps Tools**: Proficient in git, familiar with Docker, GitLab, and Jenkins.

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[1]Iranian National Olympiad in Informatics

Other Activities Member of Iranian National Olympiad in Informatics Committee   2016 - present

Head of the Scientific Committee of INOI Summer Camp.   2016

Member of Scientific Committee of various Informatics-related competitions
- ACM-ICPC Regional Contest   2015
- INOI Summer Camp   2014 - 2015
- Sharif AI Challenge   2013

Authoring and Organizing Programming Contests
- INOI Summer Camp Programming Exams   2013 - 2016
- Iran's IOI Team Selection Exams   2014 - 2015
- Bayan Programming Contest   2015
- Hellinet Programming Contest for High School Students   2012 - 2014