

# IMAN IRANDOOST

## PERSONAL INFORMATION

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DATE OF BIRTH: September 22nd, 1994

## RESEARCH INTERESTS

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- Artificial Intelligence: *Machine Learning, Data Mining, Recommendation Systems, NLP*
- Human Computer Interaction: *Social Computing, Intelligent Interfaces, Human Centered Design*
- Algorithms & Data Structures: *Graph Algorithms, String Algorithms, NP-Hard Problems*
- Mathematics: *Combinatorics, Number Theory, Linear Algebra*

## EDUCATION

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**2012 - Present**    **Isfahan University of Technology**  
B. Sc. of Software Engineering  
Thesis: Design of a Real-time Vehicle Detection System with Deep learning  
Advisor: Dr. Nader Karimi  
GPA: 16.25/20.00

## RELEVANT ACADEMIC COURSES

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Introduction to Programming	20.0/20.0	Human Computer Interaction	18.5/20.0
Advanced Programming	19.1/20.0	Combinatorics	17.8/20.0
Data Structures	20.0/20.0	Automata Theory	18.1/20.0
Design and Analysis of Algorithms	19.1/20.0	IT Project Management	18.7/20.0
Artificial Intelligence ( <i>Ranked 1st</i> )	16.0/20.0	Web Programming	19.1/20.0

## HONORS AND AWARDS

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ACM	Ranked 14th Place in 39th ACM-ICPC Asia Tehran Regional with TiZii Team 
ICPC	Honorable Mention in 38th ACM-ICPC Asia Tehran Regional with TiZii Team 
Online Programming Contests	Ranked 1st Place in IIPC 2015 Isfahan University with TiZii Team  Ranked 4th Place in IIPC 2015 Amir Kabir UT with TiZii Team  Ranked 9th Place in IIPC 2015 Sharif UT with TiZii Team  Ranked 99th among 1416 participants in Indeed Prime Code Sprint 2015  - 
Sharifcup	Ranked 2nd Place in Sharifcup 2015 Control Traffic League with iTiZ Team 
ICPC Challenge	Ranked 3rd Place in Iranian ICPC Challenge 2015 with TiZii Team 
Online Judge Websites	Ranked 237th among about 210,000 Users in UVa Online Judge  97th percentile of Algorithms Domain in HackerRank Website 
Konkoor	Ranked 281st among about 500,000 Student in National University Entrance Exam in Math and Physics (a.k.a. Konkoor)
Wrestling	Bronze Medal in National University Wrestling Championships 2015 Regionals

## EXPERIENCES

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<b>Research Assistant</b>	Department of Transportation Engineering, Isfahan UT, Spring 2016-Current <i>Research on NP-Hard Problems in Intelligent Transportation Systems</i> <i>Under Supervision of Dr. M. Tamannaei</i>
<b>Teaching Assistant</b>	Design and Analysis of Algorithms, Isfahan UT, Spring 2015 Advanced Programming, Isfahan UT, Spring 2014 and Spring 2015 Introduction to Programming, Isfahan UT, Fall 2014
<b>Tutor</b>	Introduction to Competitive Programming, Isfahan UT, Spring 2015

## PROJECTS

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- **Real-time Vehicle Detection System with Deep learning**  
*Developing a Real-time Vehicle Detection System with Deep learning using Python, cv2, lasange, sklearn*
- **Business Project Management System using Java EE and Spring Framework**  
*Developing a BPMS using Java EE, Spring, Hibernate, Soap webservises, Quartz, JSF, Primefaces, ...*
- **Attendance System using Face Recognition over Web**  
*Developing an attendance System by Face Recognition using C#, EmguCV, Soap Webservice, ...*
- **Crew Scheduling in Iranian Railway Network**  
*Developing a Crew Scheduling System using Java, BFS, Branch and Bound (Set Covering Problem)*  
*Under Supervision of Dr. Tamannaei*
- **Implementing Spam Detection with Naïve Bayes on Android**  
*Implementing Spam Detection (Text Classification) with Naive Bayes on Android using Java, Sqlite*

## SKILLS

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- **Programming Languages:** Java, C++, C#, Python, Javascript, HTML/CSS, SQL, PHP, Go
- **Data Mining and Analyzing Tools:** Python, R, Weka, IPython Notebook, R Studio, Microsoft Excel
- **Development and Design Tools:** Git, JetBrains IDEs, Visual Studio, Android Studio, Axure RP, Photoshop
- **Operating Systems:** Manjaro Linux, Ubuntu, Microsoft Windows
- **Other:** IBM CPLEX, UDK Game Engine, Cry Game Engine,  $\text{\LaTeX}$

## LANGUAGES AND TESTS

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**PERSIAN:** Native proficiency      **KURDISH:** Native proficiency  
**ENGLISH:** Professional working proficiency      **ARABIC:** Elementary proficiency  
TOEFL iBT: 103 (Reading: 29, Listening: 26, Speaking: 20, Writing: 28)

## HOBBIES



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Programming, Wrestling, Swimming, Football, Basketball, Reading Inspirational Books

## REFERENCES

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Isfahan University of Technology  
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