



# MASOUD AGHDASIFAM

Ph.D. in Computer Science, Data Analyst

- Data Analyst at Electronic Businesses Companion (EBCOM)
- Programming Lecturer at University of Tabriz
- Python Developer and Tutor

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## SUMMARY

I am a math and problem-solving lover who is crazy about algorithmic challenges. Programming for me is a tool to test or present a solution for real-world problems. I have cooperated in several small-size or medium-size software development projects until now which most of them are research-based and not commercial products. In recent years, my studies are focused on data science and would like to use my programming experiences and math knowledge in this field.

## FAMILIAR WITH

Programming with Python, C/C++, C#.Net, and Java  
Parallel, Network, and System Programming  
Data Science Concepts and Related Technologies  
Database Concepts and Related Technologies

## INTERESTED IN

Challenging Programming, Teaching, Data Science, Artificial Intelligence

## WORK EXPERIENCES

2020 – Present	<b>Data Analyst</b> Fraud Detection Researcher Recommender Systems Researcher Revenue Assurance Analyst Business Intelligence Analyst	<b>EBCOM, Tehran</b>
2020 – Present	<b>Programming and Data Science Tutor</b> Programming with Python/Java/C/C++ Data Science with Python	<b>www.OstadSalam.ir</b>
2018 – Present	<b>Instructor of Python Programming</b> Data Science Academy (University of Tehran, In progress) Saman Insurance Co. (2020) Tehran Institute of Technology (2019) CERT, University of Tabriz (2018-2019)	<b>Tabriz-Tehran</b>
2015 – Present	<b>Lecturer</b> Programming Challenges Course (Algorithmic Programming using Python) Advanced Programming Course (Object-Oriented Programming with Java) Principles of Computer and Programming Course (Programming with C/C++)	<b>University of Tabriz</b>
2013 – Present	<b>Leader</b> Leader of Programming Contests Teams (ICPC, Iranian ICPC, ...)	<b>University of Tabriz</b>
2006 – Present	<b>Founder</b> Founder, Designer and Author of <a href="http://algorithmha.ir">algorithmha.ir</a> , a Tutorial Website for Programming, Algorithm Design Principles, and Programming Contests	<b>www.algorithmha.ir</b>
2017	<b>Coach</b> Coach of RoboCup Rescue Simulation Agent Team	<b>University of Tabriz</b>
2016 – 2018	<b>Lecturer</b> Data Mining Course Advanced Software Engineering Course	<b>University College of Daneshvaran, Tabriz</b>
2012 – 2015	<b>Teacher Assistant</b> Advanced Programming Course C++ Programming Course Data Structures Course	<b>University of Tabriz</b>
6/2015 – 9/2015	<b>Software Developer</b> Implementing a Decision Support System (DSS) to Optimize Multiple Production Processes for Iran Tractor Industrial Group	<b>Research Center for Industrial Mathematics of University of Tabriz</b>
Sep. 2013	<b>Software Developer</b> Implementing a PLC Code Execution Simulator	<b>Imapardaz, Tabriz</b>

## EDUCATION

2015 – 2020	<b>Ph.D. in Computer Science</b> Worked on Automatic Software Source Code Modularization and Refactoring	University of Tabriz
2012 – 2014	<b>M.Sc. in Computer Science</b> Worked on Asymmetric Cryptography Algorithms	University of Tabriz
2010 – 2012	<b>B.E. in Computer Software Engineering</b> Worked on Heuristic and Metaheuristic Solutions for Optimization Problems	University College of Daneshvaran, Tabriz
2004 – 2007	<b>Associate's Degree in Applied Mathematics</b> Worked on Symmetric Cryptography Algorithms	University of Tabriz

## HONORS & AWARDS

Dec. 2019	<b>5th place</b> Machine Learning Challenge	RahnemaCollege Technical Competition, Iran
Dec. 2019	<b>9th place</b> Team member as coach	ICPC Asia Region 2019, Iran
Nov. 2019	<b>14th place</b> BigData Challenge	Sahab NIMBO Technical Competition, Iran
Jul. 2017	<b>1st place of Technical Challenge in Rescue Simulation Agent league</b> Team member as coach	RoboCup 2017, Japan
Jul. 2017	<b>2nd place of Agent Competition in Rescue Simulation Agent league</b> Team member as coach	RoboCup 2017, Japan
Mar. 2017	<b>Best Presentation of Agent Competition in Rescue Simulation Agent league 2017</b> Team member as coach	Iran Open RoboCup
Mar. 2017	<b>6th place of Agent Competition in Rescue Simulation Agent league</b> Team member as coach	Iran Open RoboCup 2017
Dec. 2014	<b>1st Place</b> Team member as coach	3rd Iranian ICPC Challenge
Dec. 2013	<b>1st Place</b> Team member as coach	2nd Iranian ICPC Challenge
Dec. 2012	<b>2nd Place</b> Team member as coach	1st Iranian ICPC Challenge

## CERTIFICATIONS

Apr. 2021	<b>Bayesian Data Analysis in Python</b> DataCamp	Credential ID: 19125683
Apr. 2021	<b>Building Recommendation Engines in Python</b> DataCamp	Credential ID: 19126575
Apr. 2021	<b>Financial Trading in Python</b> DataCamp	Credential ID: 19081602
Apr. 2021	<b>Time Series with Python Track</b> DataCamp	Credential ID: 216589
Apr. 2021	<b>Image Processing with Python Track</b> DataCamp	Credential ID: 216288
Apr. 2021	<b>Deep Learning in Python Track</b> DataCamp	Credential ID: 214933
Sep. 2020	<b>Web-Scraping with Python</b> Maktabkhooneh	Credential ID: MK-XRUMQ

May. 2020	<b>Coding Best Practices with Python Track</b> DataCamp	Credential ID: 146409
May. 2020	<b>Marketing Analytics with Python Track</b> DataCamp	Credential ID: 145948
Jan. 2020	<b>Machine Learning and Object-Oriented Thinking Course</b> Quera College	Credential ID: ZhgdolCs
Nov. 2019	<b>Practical Algorithm Design 1</b> eLearning Center of Sharif University of Technology	Credential ID: AC-98-CE-15524
Oct. 2019	<b>Applied Statistics for Data Analysis</b> Maktabkhooneh	Credential ID: MK-P4JHK5
Sep. 2019	<b>SPSS Data Analysis</b> eLearning Center of Sharif University of Technology	Credential ID: AC-98-IE-14444
Sep. 2019	<b>Advanced Python Programming and Object Oriented Thinking</b> Quera College	Credential ID: SWBaYLZj
Aug. 2019	<b>Machine Learning A-Z™: Hands-On Python &amp; R In Data Science</b> Udemy	Credential ID: UC-YDUX1WHY
Aug. 2019	<b>The Business Intelligence Analyst Course 2019</b> Udemy	Credential ID: UC-SILSMYUG
Jul. 2019	<b>The Data Science Course 2019: Complete Data Science Bootcamp</b> Udemy	Credential ID: UC-6JE1E17P
May. 2019	<b>Statistics Fundamentals with Python Track</b> DataCamp	Credential ID: 85184
May. 2019	<b>SQL Fundamentals Track</b> DataCamp	Credential ID: 83336
Mar. 2019	<b>Data Scientist with Python Track</b> DataCamp	Credential ID: 76893
Mar. 2019	<b>Data Analyst with Python Track</b> DataCamp	Credential ID: 76257
Mar. 2019	<b>Advanced Algorithmic Thinking and Data Structure</b> Quera College	Credential ID: 19ga1CUH
Mar. 2019	<b>Machine Learning with Python Track</b> DataCamp	Credential ID: 76574
Mar. 2019	<b>Python Programmer Track</b> DataCamp	Credential ID: 75037
Mar. 2019	<b>Fundamentals of Python Programming and Algorithmic Thinking</b> Quera College	Credential ID: 8Pqct69S

## PUBLICATIONS

2020	<b>A New Metaheuristic-Based Hierarchical Clustering Algorithm for Software Modularization</b> Masoud Aghdasifam, Habib Izadkhah, and Ayaz Isazadeh. Complexity, Vol. 2020	co-author
2017	<b>Source Code Modularization: Theory and Techniques</b> Isazadeh, Ayaz and Izadkhah, Habib and Elgedawy, Islam. Springer Publishing Company, Incorporated	co-editor
2014	<b>Modified Bitwise Hill Cryptosystem</b> Jaber Karimpour, Masoud Aghdasifam, and Ali Asghar Noroozi. The CSI Journal on Computer Science and Engineering (JCSE), Vol. 12, No. 2 & 4 (b), pp. 11-15	co-author