Iman Gholami

+1 (240) 960 6899 | igholami.com | imangholami77@gmail.com |igholami@umd.edu
linkedin.com/in/imangholami | github.com/igholami

Education

University of Maryland, College Park — MD, USA
Graduate Student in Computer Science — *Jan 2023 – Present*
- GPA: 4.0

Sharif University of Technology — Tehran, Iran
B.Sc. in Computer Engineering — *Sep 2017 – Sep 2022*
- GPA: 3.57

Experience

Research Assistant — Jan 2023 – Present
University of Maryland, College Park — *MD, USA*
- Working in a theoretical computer science research group specializing on Approximation Graph Algorithms and Hardness of Instances.

Software Engineering Team Leader — Nov 2018 – Dec 2022
Balad Navigation and Maps — *Tehran, Iran*
- Balad is a leading provider of Persian-language mapping and navigation services in Iran, offering comprehensive maps and real-time traffic information to ensure efficient and timely route planning for users across the country. The platform's user-friendly interface and detailed maps have made it a popular choice, with +20 M of users benefiting from its features.

Teaching Computer Science — Sep 2016 – Jan 2020
High School Level — *Tehran, Iran*

Publications

Prize-Collecting Steiner Tree: A 1.79 Approximation
Published in STOC24 — Jun 2024
- Joint Work with Ali Ahmadi, MohammadTaghi Hajiaghayi, Peyman Jabbarzade, and Mohammad Mahdavi

2-Approximation for Prize-Collecting Steiner Forest
Published in SODA24 — Jan 2024
- Joint Work with Ali Ahmadi, MohammadTaghi Hajiaghayi, Peyman Jabbarzade, and Mohammad Mahdavi

Honors/Awards

2nd Place | *ICPC NAS, Mid-Atlantic USA Region* — Mar 2023
3rd Place | *National Olympiad of Computer Engineering for Undergraduate students* — Nov 2021
4th Place | *ACM/ICPC Asia Region, Tehran Site* — Dec 2020
2nd Place | *ACM/ICPC Asia Region, Tehran Site* — Dec 2017
Silver Medal | *International Olympiad in Informatics* — Aug 2017
Gold Medal | *Iran National Olympiad in Informatics* — Aug 2016
Silver Medal | *Iran National Olympiad in Informatics* — Aug 2015

Research Interests

Algorithms and Complexity
Graph Theory
Machine Learning
Distributed Systems
Large Scale Data Mining
Cloud Computing

Skills

Computer Science: Competitive Programming, Problem Solving, Algorithms, Graph Theory, Combinatorial
Software Development: Software Architecture Patterns, Agile
Languages: Python, C/C++, Java, Kotlin, Go, SQL, Javascript, HTML/CSS
Frameworks: Djnago, Flask, Vue.js
Big Data: Spark, Hadoop, Kafka, Patterns of Batch and Streaming Applications
Development Tools: Bash, Git, Docker, k8s, LaTeX
Databases: Postgres, Redis, Mongo, Elastic Search
Libraries: pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn
Map Tools: OSM Tools, Tile38, Rtree, shapely