

Mehrdad Aksari Mahabadi

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Research Interests

- Algorithms
- Database Systems
- Distributed Computing

Education

Amirkabir University of Technology (Tehran Polytechnique) *Sep 2020 - Present*
 BS in Computer Science
 GPA: 18.71 / 20

Experience

Snapp *Jan 2023 - Mar 2024*
Software Engineer *Dec 2024 - Present*
 Snapp is the leading company in providing online taxi services with over 30 million users in Iran. As part of the Routing team, we were responsible for providing estimated time of arrival (ETA) and navigation services.

- Added a post-processing procedure to the map matching algorithm, which significantly improved coverage.
- Integrated traffic speeds into routing algorithms, enabling time-dependent routing.
- Redesigned ETA benchmarking service leveraging concurrency, which increased throughput by x10.

Honors & Awards

Ranked among **top 3** students between 70 students who began their studies in Sep. 2020 at Amirkabir University of Technology, Dept. of Comp. Sci. and consequently recognized as an **outstanding** student. *Feb 2022*

Eligible to choose a **second major** due to outstanding performance. *Feb 2021*

Ranked among the **top 2%** between all applicants in the University Entrance Nationwide Exam known as Konkur (approximately 150,000 applicants). *Sep 2020*

Selected for study in schools of National Organization for the Development of Exceptional Talents *Sep 2013*

Technical Reports

Bounds for Pancake Problem *report for graduate course in bioinformatic* [link](#)
 Introduced sorting by subset prefix reversal problem and its theoretical bounds

Fuzzy Linear Algebra *report for numerical linear algebra course in Farsi* [link](#)
 Used Sympy to solve fuzzy linear systems with Gaussian and Jacobian iterative methods

Teaching Experience

Computational Geometry, Dr. Rahmati *Fall 2024*
Numerical Linear Algebra, Dr. Dehghan *Fall 2024*
Algorithm Design & Analysis, Dr. Seyed javadi *Fall 2022*

Test Scores

- TOEFL iBT 111/120 (reading 28/30, listening 28/30, speaking 27/30, writing 28/30)

References

Dr. Rahmati	Head of Comp. Sci. Dept., Amirkabir University	zrahmati@aut.ac.ir
Dr. Soleymani Baghshah	Professor Comp. Eng. Dept., Sharif University	soleymani@sharif.edu
Dr. Salari	Professor of Comp. Sci., Razi University	f.salari@razi.ac.ir