

# Majid Daliri

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Education	<b>New York University</b> , New York, USA <b>Ph.D. in Computer Science</b> Advised by <a href="#">Prof. Christopher Musco</a>	2022 - 2027
	<b>University of Tehran</b> , Tehran, Iran Undergraduate student of B.Sc. in <b>Computer Engineering</b> <ul style="list-style-type: none"><li>Cumulative GPA: <b>3.97/4</b>, in Related Subjects: <b>4/4</b></li></ul>	2017 - 2022
Publications	<ul style="list-style-type: none"><li><b>Efficient Approximations for Cache-conscious Data Placement</b> (PLDI) 2022 Ali Ahmadi, <b>Majid Daliri</b>, Amir Kafshdar Goharshady, Andreas Pavlogiannis</li><li><b>A 10-Approximation of the <math>\frac{\pi}{2}</math>-MST</b> (STACS) 2022 Ahmad Biniiaz, <b>Majid Daliri</b>, AmirHossein Moradpour</li><li><b>Weighted Minwise Hashing Beats Linear Sketching for Inner Product Estimation</b> (PODS) 2023 Aline Bessa, <b>Majid Daliri</b>, Juliana Freire, Cameron Musco, Christopher Musco, Aécio Santos, Haoxiang Zhang</li><li><b>KDEformer: Accelerating Transformers via Kernel Density Estimation</b> Under Submission Amir Zandieh, Insu Han, <b>Majid Daliri</b>, Amin Karbasi</li></ul>	
Research Experience	<b>Research Internship, Simon Fraser University</b>	Aug 2021 - Feb 2022
	under the supervision of <a href="#">Prof I. Shinkar</a> , we are working on the Analysis of Boolean Functions, primarily by analyzing the Fourier aspect of functions.	
	<b>Online Research Internship, HKUST</b>	Jun 2021 - Jun 2022
	under the supervision of <a href="#">Professor A. Goharshady</a> , my project was to design an algorithm to parameterize the cache-conscious data placement and find the exact cache misses or an approximation.	
	<b>Research Internship, Max-Planck-Institut für Informatik</b>	Apr 2021 - Jan 2022
Awards and Honors	under the supervision of <a href="#">Dr A. Zandieh</a> , the research has focuses on improving the time complexity and reducing the sample counts of the approaches associated with the learning and reconstruction of Fourier of sparse set functions.	
	<b>Research Internship University of Windsor, Canada</b>	Feb 2021 - Feb 2022
	Under the supervision of <a href="#">Professor A. Biniiaz</a> , working on some computational geometry problems, specifically on topics associated with the Euclidean Minimum Spanning tree.	
	<b>Hong Kong PhD Fellowship Scheme</b>	2022
Awards and Honors	Won scholarship of Hong Kong PhD Fellowship Scheme (HKPFS) of HK\$1,445,200 (approximately US\$184,100) by selecting among the best and brightest 300 students over the world in all majors.	
	<b>ACM ICPC - Regional (University of Tehran)</b>	2019
Awards and Honors	ranked 6 <sup>th</sup> among more than 100 team all around the Iran.	

**Iranian National Olympiad in Informatics Finalist (IOI national wide)** 2016  
are awarded to around 50 selected after a year of competition among over 10000 Students.

Teaching	Section Leader for <b>CSCI-UA 310 Basic Algorithms</b>	Spring 2023
	Teaching Assistant <b>NYU CS-GY 6763 Algorithmic Machine Learning and Data Science</b>	Fall 2022

Work Experience	<b>Software Engineer at Cafebazaar</b>	Summer 2019
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Cafebazaar is the most popular and successful Android application store in Iran, with more than 50 million users.  
member of TripPlanner team working on developing an application for administration trips by presenting some services like expenses management, and destination offering.

**Junior Software Engineer at Digikala** Jan 2021 - Apr 2021  
Digikala is the first and largest reference for reviewing and selling goods online in Iran with the most turnover.  
I was a member of the Delivery team working on fixing and maintaining the delivery services by designing a new efficient algorithm based on challenges, for instance, reduce the delivery duration up.

**Site Reliability Engineer at Sotoon** Oct 2021 - Jun 2022  
Sotoon is a privately held company in Hezardastan Group, providing Cloud and AI services. With the help of cutting-edge technologies, we provide the same level of services that we are providing for our sister companies in Hezardastan Holding, such as Cafe Bazaar and Divar, which are the most well-known companies in Iran.  
Member of the SPAAS team whose duties were to provide various databases and platforms as a service on the Kubernetes-based cloud.  
I was working on extending the services to other databases and maintaining the existing one's Services.

Skills and Qualities	<b>Theoretical Background:</b> Experienced in Design of Algorithms, Data Structures, and Discrete Mathematical fields such as Graph Theory and Combinatorics.
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**Programming and Scripting:**  
Expert in C/C++, Go, Python, Bash-Scripting, PHP, JavaScript

**Software Engineering:**  
Familiar with different object oriented design patterns and software development methodologies.

**Web Application Development:**  
Comfortable with Django, CSS3 and HTML5. Proficient in git and familiar with many other development tools.

**Other:**  
Creative, self-motivated, eager to learn new things. Communicative and collaborative with the ability to work both independently and in a team.