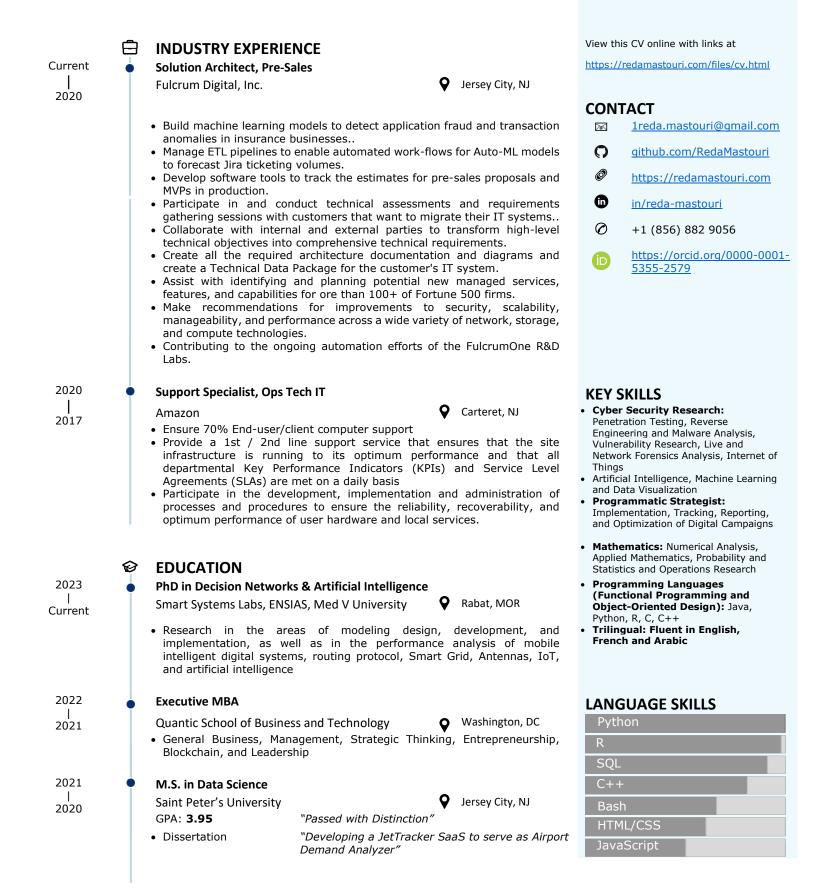
## **REDA MASTOURI**

Data Scientist with a passion for teaching and coaching.

| Data Analytics | Statistics | Machine Learning | Predictive Modeling | Data Visualization | NLP | Network Analytics | Network Security | Software Engineering | Ethical Hacking |

Versitile Information Technology Professional and Research Scholar with 9 years experience in teaching, tutoring and mentoring, and training college level students. Additional hands-on experience in the implementation, administration, support and troubleshooting of networked LANs/WLANs. Strong organization and critical thinking skills, and proven ability to multi-task.





	• Capstone Project "Examination of Digital Community Conversations Within Specific Disease States Via Reddit"
2020   2017	B.A. in Applied Mathematics and Computer Sciences NJIT & Rutgers University ♀ Newark, NJ GPA: 4.0 "Summa Cum Laude"
	<ul> <li>Scholarships</li> <li>Awarded the Rutgers University-Newark Talent and Opportunity Program (RU-N to the TOP) Full Scholarship</li> <li>Scarlet Promise Grant</li> </ul>
	Dean's list     Fall'16, Spring'17, Fall'17, Spring'18, Fall'18, Spring'19, Fall'19, Spring'20
2013	M.Eng. in Telecommunication and Network Engineering
l 2010	Cadi Ayyad University Q Marrakech, MOR
2021	SELECTED CODE REPOSITORIES PatientCom - Smart Reddit Data-Driven App
2021	Saint Peter's University Q Jersey City, NJ
	• Development of a repeatable process for the analysis of Reddit conversations within specific condition and/or disease state with applicable threads and subreddit threads (subreddits) to potentially inform strategy and content development. Create a simplified and repeatable process that does not require the users to be fluent in Reddit.
2021	Optimal Transport - Stochastic Gradient Descent-Based Financial Models (SGDBF)
	<ul> <li>New York University</li> <li>A new method is proposed for the solution of the data-driven optimal transport barycenter problem and of the more general distributional barycenter problem that the article introduces. The method improves on previous approaches based on adversarial games, by slaving the discriminator to the generator, minimizing the need for parameterizations and by allowing the adoption of general cost functions. It is applied to numerical examples, which include analyzing the MNIST data set with a new cost function that penalizes non-isometric maps.</li> </ul>
<b>&amp;</b>	TEACHING EXPERIENCE
Current (	<ul> <li>STEM and Business Tutor</li> <li>Hudson County Community College</li> <li>Jersey City, NJ</li> </ul>
2017	<ul> <li>Polish student's performance to become independent learners</li> <li>Develop comprehensive lesson plans that accommodate specific level of learners</li> </ul>
	<ul> <li>Boost accuracy by refining test-taking strategies and methods</li> <li>Accelerate problem solving by teaching reliable shortcuts</li> </ul>
2020	Math, Business and Sciences Peer Educator
 2018	Rutgers University <b>Q</b> Newark, NJ
	<ul> <li>Assist students in acquiring a better understanding in Numerical Analysis, Differential Equations, Calculus I, II and Calculus III, Intensive Programming and Data Structure.</li> <li>Help students develop study skills and techniques to help improve their academic performance</li> </ul>
	Coordinate with multiple students creating a well - rounded and engaging environment
	<ul> <li>Specialized as an individual tutor by simplifying math concepts while coaching students to think critically to solve problems</li> <li>Conduct comprehensive test review sessions which contributes to an increase of more than 25 percent in some students' grades</li> <li>Assist students in acquiring better understanding of targeted weak areas within a subject or a subject as a whole</li> <li>Write individual tutoring plans in accordance to the individual needs of students</li> </ul>

In my free time, I enjoy working with friends, peers, and colleagues on algorithm designs/implementations. Recently, we built data frame and decision tree classes in C++ and Python.

I am passionate about teaching and helping others. It brings me joy and satisfication to teach others new skills.

2016   2015	<ul> <li>Mathematics and Programming Languages Tutor Varsity Tutors</li> <li>Raised test scores by more than 10% by tutoring Math and other subjects such as Programming, Networking, French, Calculus [I, II, III], Differential Equation, Linear Algebra, Research &amp; Analytics</li> </ul>
	e PROFESSIONAL DEVELOPMENT/AFFILIATIONS
2020	Fellow, (Post Career Accelerator Program for Minorities
	Braven <b>Q</b> Newark, NJ
	Built a prototype of a mobile application for Panasonic that received 95%
	<ul> <li>approval ratings for its beta trial.</li> <li>Conducted empathy-based research with four individuals to better understand their pain points.</li> </ul>
2019	Fellow, (National Search Foundation)
	Garden State LSAMP (Louis Stokes Alliance for
	Minority Participation)
	<ul> <li>Awarded the National Search Foundation for cyber-security Web Vulnerability assessment research.</li> </ul>
	Published 2 peer-reviewed research articles for Rutgers' NCAS research center
2020	Fellow, (Mentor Coaching)
	America Needs You <b>Q</b> Jersey City, NJ
2017	College Student Success Mentor
	Hudson County Community CollegeImage: Second Se