Mohamed Elgharbawy

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EDUCATION	
UNIVERSITY OF CALIFORNIA, BERKELEY Electrical Engineering and Computer Science M.S., GPA: 3.95 Computer Science B.A., GPA: 3.86	2023 2021
DE ANZA COLLEGE Associates: Liberal Arts - Science, Math and Engineering Emphas	is, GPA: 3.78 2019
SKILLS	
Languages: Advanced: C++, Java, Python; Intermediate: Swift Software & Libraries: AWS, PyTorch, TensorFlow, Pandas, SQL Google Guice Skills: Machine Learning, Optimization, Database Systems, Softw	, DynamoDB, Apache, PhpMyAdmin,
Work Experience	·
 Amazon Software Development Engineer Intern Designed and implemented both full stack and backend s Designed and implemented a pre-compute solution to require a second 	duce loading times from 10+ seconds to
 Implemented integration testing, metrics, dashboards, ala Readiness Review 	rms, and conducted an Operational
AI Health Computer Science Intern • Developed an anti-fraud software for dental offices • Worked with databases containing millions of entries	Sunnyvale, CA July 2018 - December 2018
Reduced CSV manipulation scripts' runtimes significantly RESEARCH	7
Machine Learning for Combinatorial Optimization - RISEL Graduate/Undergraduate Student Researcher	ab @ UC Berkeley Berkeley, CA September 2021 - May 2023
• Researched machine learning methods to improve the per Theory Solvers, such as Z3. Research methods involved a contrastive learning.	-
 Thesis: Contrastive Learning for Combinatorial Optimiza <u>Pubs/TechRpts/2023/EECS-2023-140.html</u>) 	ntion (https://www2.eecs.berkeley.edu/
NumS - RISELab @ UC Berkeley Undergraduate Student Researcher	Berkeley, CA January 2021 - May 2021
 Increased the API Coverage and improved the testing suinums), a numerical computing library for Python that sca 	
TEACHING	
Computer Science Mentors (CS61A) - UC Berkeley [unior Mentor	Berkeley, CA September 2021 - December 2021

CS61C - UC Berkeley
Academic Intern
CIS 36A - De Anza College
Computer Science Teaching Assistant

Berkeley, CA September 2021 - December 2021 Berkeley, CA January 2021 - May 2021 Cupertino, CA January 2019 - March 2019